



ST. JOSEPH'S COLLEGE

Rensselaer, Indiana

Correspondence for further information may be addressed to the appropriate office at Saint Joseph's College, Rensselaer, Indiana 47978, as follows:

General College Affairs
CHARLES H. BANET, C.PP.S.
President

Academic Policies,
Faculty Appointments
ROBERT J. GARRITY
Vice President for Academic Affairs

Transcripts of Credits
CHARLES J. ROBBINS, C.PP.S.
Registrar

Admission Information
WILLIAM J. STAFFORD
Director of Admissions

Business Affairs
PAUL WELLMAN, C.PP.S.
Vice President for Business Affairs

Public Relations and Development
GERALD R. GLADU
*Vice President for Public
Relations and Development*

General Information, News
Service, Publications
CHARLES J. SCHUTTROW
Director of Public Information

Student Affairs
JEROME F. HUGHES
Personnel Dean

Athletic Information
RICHARD F. SCHARF
Director of Athletics

Alumni Affairs
SANTE J. REALE, C.PP.S.
Alumni Director

SAINT JOSEPH'S COLLEGE BULLETIN

CATALOG ISSUE

RENSSELAER, INDIANA 47978
VOLUME 82, NUMBER 1
AUGUST, 1973

Issued annually by the Office of the Vice President for Academic Affairs

The College reserves the right to change certain requirements for degrees prerequisites, majors, fees, scheduling, etc. All such cases are adjusted in such a way that the curricular requirements will work no hardship on a student who has entered under an earlier set of requirements. A student who has discontinued college studies for a full semester or more is regarded as re-entering the College when he resumes his studies and will be held to the requirements current at re-entrance.

SAINT JOSEPH'S

A FOUR YEAR GENERAL COLLEGE

Accredited by:

National Council for Accreditation of Teacher Education.

North Central Association of Colleges and Secondary Schools.

State of Indiana Department of Public Instruction for the training of elementary and secondary teachers, and in the graduate music program.

Affiliated with:

Marquette University*

Purdue University*

Rose Hulman Institute*

Saint Louis University*

University of Detroit*

University of Illinois*

University of Notre Dame*

With membership in:

American Association of Collegiate Schools of Business

American Council on Education

Associated Colleges of Indiana

Association of American Colleges

Association of American Colleges for Teacher Education

College Entrance Examinations Board

Commission on Christian Higher Education of the Association of American Colleges

Independent Colleges and Universities of Indiana

Indiana Conference of Higher Education

Indiana Consortium for International Programs

National Catholic Education Association

National Collegiate Honors Council

Northwest Indiana Consortium

*Affiliated on 3-2 Liberal Arts — Engineering Programs.

COLLEGE CALENDAR

1973-74

FALL SEMESTER

Aug 26 Sun	Freshmen and new students enroll
Aug 26-29 Sun-Wed	Orientation
Aug 29 Wed	Enrollment and registration of re-entering students
Aug 30 Thur	Classes begin at 8:00 A.M.
Sept 6 Thur	Limit for change in class schedule
	Last day to register Independent Study projects for the first semester
	Last day for the declaration of the pass/not pass option for eligible courses
Sept 28 Fri	Limit for applying for credit by examination
Oct 22 Mon	No classes
Oct 26 Fri	Freshman mid-term grades due
Nov 21-25 Wed-Sun	Thanksgiving recess
Nov 26 Mon	Classes resume
Dec 5 Wed	Last day for class withdrawal
Dec 12 Wed	Honors Papers due at the Office of the Vice-President for Academic Affairs
Dec 19 Wed	Last day of Fall Semester

WINTER SEMESTER

Jan 5 Sat	New students enroll
Jan 6 Sun	Registration for returning and re-entering students
Jan 7 Mon	Classes begin at 8:00 A.M.
Jan 14 Mon	Limit for change in class schedule
	Last day to register Independent Study projects for the second semester
	Last day for declaration of the pass/not pass option for eligible courses
Jan 23 Wed	Deadline for removal of I grades (first semester)
Jan 20 Mon	Limit for applying for credit by examination
Feb 18 Mon	Founders Day; Federal Holiday. No classes
Feb 22 Fri	Freshman mid-term grades due
Apr 2 Tue	Academic Awards Banquet
Apr 10 Wed	Last day for class withdrawal
Apr 11-16 Thur-Tue	Easter recess
Apr 17 Wed	Classes resume
Apr 19 Fri	Honors papers due at the Office of the Vice-President for Academic Affairs
Apr 26 Fri	Last day of Winter Semester

SPRING SESSION 1974

May 5 Sun

May 6 Mon

May 27 Mon

May 31 Fri

June 7 Fri

June 16 Sun

Enrollment and registration

Classes begin at 8:00 A.M.

Memorial Day; Federal Holiday. No classes.

Last day for class withdrawal

Deadline for removal of I grades (second semester)

Last day of Spring Session

Graduation

SUMMER SESSION 1974

June 23 Sun

June 24 Mon

July 4 Thur

July 19 Fri

July 26 Fri

Enrollment and registration

Classes begin at 7:45 A.M.

Independence Day; Federal Holiday. No Classes.

Last day for class withdrawal

Last day for Summer Session



AIMS AND PURPOSES

Saint Joseph's College is an independent institution of higher learning dedicated to being a community of scholars — teachers and students — working in mutual association under the leadership and direction of its teachers, towards the spread, preservation, clarification, discovery and defense of truth. Whether the truths of the sciences, arts and skills be viewed as revealed or acquired, as speculative or practical, as moral or artistic, the dedication to these truths and the search for them is the primary purpose of Saint Joseph's. The academic and the general policies and procedures of the college as well as the relationship of Saint Joseph's to its public are conceived and carried out in terms of this basic purpose.

At the same time, Saint Joseph's College also recognizes that it exists in the larger context of society, and that its faculty and students have definite relations and obligations to the family, the state and the Catholic Church, as well as to various other societies representing industry, business, labor, health and recreation. For this reason, the College adopts as its own those aims toward which the family, state, Church and other societies are directed.

Foremost among the aims which the College actively provides for and promotes is that goodness of personal, family, social and religious life made possible by practice of the theological and moral virtues. In this respect, the College again maintains that both faculty and students can understand better what they must be and what they must do in the city of man so as to maintain their sublime end in the city of God, by means of fulfilling their calling in life as witnesses to truth.

The College adopts and proposes to its faculty and students other worthy aims which are required and helpful to them in seeking and in striving for goodness of life. Among these are the need for observing social justice as well as of pursuing individual rights, the importance of fulfilling one's vocation in life, and the need of discipline, of recreation and of mental and physical health. But it is the belief of Saint Joseph's College that no matter how worthwhile these aims are, they can be more surely achieved to the extent that teacher and student are dedicated to their proper purpose — truth.

Moreover, the College believes in truth for our age and times. It places its emphasis on the truths of the sciences, arts and skills with which it is concerned and chooses its curriculum in terms of the problems, questions and needs of the time in which it lives. Saint Joseph's College is convinced that any and all of the truths which it considers — whatever they may be — are to be sought for their own sake primarily; for it is only in this way that they can lead to goodness of life, further the good of family, state and Church, and be of value to industry, business and all human endeavors.

The primary consideration and concern of the College is for the academic community of teachers and students, to whom it offers a permanent vocation as witness to truth. The library, the counseling of students, the social, recreational and physical facilities, the classrooms and laboratories — all are viewed as means and as conditions contributing towards its main purpose — truth.

COLLEGE HISTORY

In 1868, a frame dwelling was erected a mile south of Rensselaer as a home for thirty-five orphans. The home was closed in 1887. Two years later, The Most Reverend Joseph Dwenger, bishop of Fort Wayne, offered the vacant orphan's home and land to Father Henry Drees, then Provincial of the Society of the Precious Blood, with the stipulation that a college be founded there. During the same year, 1889, Saint Joseph's College was incorporated under the laws of the state of Indiana with the right to grant scholastic degrees.

The educational program in the early years was on two distinct levels, the high school and the junior college. The aim was to prepare students for professional schools and seminaries, for teaching and for immediate entry into business. The new college passed its first major milestone June 16, 1896, when it presented diplomas to twelve students, its first class of graduates.

The original aims of Saint Joseph's changed little up to 1925. At that time the college was converted into a minor seminary and for a period of six years admitted only students preparing for the priesthood. The status of academy and junior college was re-established in 1931, and plans for the expansion of the school were formulated. Saint Joseph's began to operate as a senior college in 1936, and in June 1938, its first four-year class was graduated.

In the next three decades, Saint Joseph's grew from a school of few buildings to a contemporary college. The expansion was carefully designed to utilize the one hundred and thirty acre campus to serve the educational needs of Saint Joseph's student.

In 1951, in response to the need for a Catholic college in the Calumet Region of northwest Indiana, the College began an extension program in East Chicago. This program developed to the point that in 1963 it was granted the status of a campus, known as Saint Joseph's College Calumet Campus, offering a full four-year college program similar to that of the Rensselaer Campus.

With an ever-present desire to improve its educational opportunities, Saint Joseph's has introduced campus and curriculum innovations which evidence its contemporary philosophy of education.

The campus Computer Center was completed in 1966 and offers students training and experience in both scientific and commercial data processing.

In 1968, the College ended its 79-year policy of admitting male students only. The change to a coeducational institution was made to widen the range of students contributing to the College's intellectual atmosphere and to create an air of better social and academic involvement on campus. Saint Joseph's offers a wide spectrum of programs and courses for coed students, who have responded by enrolling heavily in the areas of education and the humanities.

The introduction of the Core Curriculum program in the fall of 1969 shifted the direction of general education courses from that of a series of separate courses to an interdisciplinary approach. This combined the previous courses into a program examining issues of history, philosophy, theology, literature and other subjects within a historical framework. The interrelated nature of all subject material in the Core Curriculum allows the student to have an overview which permits deeper understanding and clearer insights.

Improving and expanding the quality of academic offerings is a continuing process at Saint Joseph's. The Honorable Charles A. Halleck, former Congressman and House minority leader, holds the post of Distinguished Lecturer in History and has contributed generously of the knowledge gained from his years on Capitol Hill in a lecture course on American government. The list of major programs of study has grown to 33.

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Course-offerings, physical facilities, faculty members and students are all part of a heritage which is constantly growing and improving as Saint Joseph's continues to face successfully the fast-paced challenges and rewards of contemporary American education.

CAMPUS

XAVIER HALL

Dedicated to Saint Francis Xavier, patron of the Society of the Precious Blood, Xavier Hall was built in 1940. Since the loss of the old Administration Building it has housed the offices of the President, Business Office, Academic Dean, Admissions, Development, Registrar.

SAINT JOSEPH'S CHAPEL

This attractive Romanesque brick and stone Chapel has served the college since 1910, and its stately twin bell towers have become synonymous with the College itself.

SCIENCE BUILDING

The two wings of this building, completed in 1936, house science laboratories, the Music Department, the school library, the college auditorium and classrooms. The north-south wing includes Music Department offices and rehearsal rooms, the College's 400-seat auditorium, and the school's 181,000 volume library. The building's east-west wing contains physics, chemistry, biology and geology laboratories in addition to many of the college classrooms.

PUBLICATIONS BUILDING

Originally serving as the editorial offices of various College publications, this building now holds the campus Post Office and offices of the Computer Center, Alumni Association, Athletic Director, Placement and WOWI, the College's student radio station.

HALLECK CENTER

Halleck Student Center, named after Charles A. Halleck, former Congressman from Indiana and a long-time member of Saint Joseph's Board of Trustees, serves as the college student union building. The Center houses the student dining room, the College bookstore, student lounges, the Raleigh Room Grill, meeting rooms, the office of the Personnel Dean, the Director of Public Information, student publication staffs and the Student Association.

DWENGER HALL

Erected in 1907 and named for the second bishop of the Diocese of Fort Wayne, it serves as the College infirmary and dispensary.

ALUMNI MEMORIAL FIELDHOUSE

The Fieldhouse seats 2000 spectators and provides locker rooms for over 500 participants in the school intramural sports programs. Besides serving as the site for Puma basketball games, the Fieldhouse is also the scene for concerts sponsored by the student association during the school year.

RALEIGH HALL

This building holds weight-lifting equipment, wrestling mats, and other athletic facilities and is open for use by all students.

THE GROTTO

Built by donations from the class of 1925, the Grotto consists of a shrine of the Blessed Virgin and a statue depicting Christ at Gethsemane. The Grotto rests in a grove of trees towards the south end of the campus and includes Stations of the Cross and walking paths.

THE REFLECTING POND

A part of Saint Joseph's since the College's earliest days, the Reflecting Pond borders the Chapel at the College's main entrance. The scenic pond and fountain are picturesque sights to Collegeville students and visitors.

COLLEGE HOUSING**AQUINAS HALL**

Opened in the fall of 1959, this three-story hall houses 50 students and is named for St. Thomas Aquinas, patron saint of Catholic education.

BENNETT HALL

Named for the Most Reverend John G. Bennett, first Bishop of Lafayette, an alumnus and generous patron of the College, this hall houses 98 students and was dedicated in the spring of 1955.

DREXEL HALL

This three-story structure accommodates 110 students and is named for Mother Catherine Drexel, donor of the building funds.

GASPAR HALL

One of the oldest buildings on campus, Gaspar Hall is named for St. Gaspar del Bufalo, founder of the Society of the Precious Blood, the religious order which teaches at Saint Joseph's. It is used for faculty offices.

GALLAGHER HALL

Named after Robert A. Gallagher, first chairman of Saint Joseph's Board of Trustees and a generous patron of the college, this hall was dedicated in 1958 and houses 125 students.

HALAS HALL

Dedicated in the fall of 1958, this hall is named for George S. Halas, member of the College Board of Trustees, generous patron of the College and owner of the Chicago Bears, who annually hold summer training sessions at Saint Joseph's. It holds 125 students.

MERLINI HALL

Merlini Hall accommodates 80 students, was dedicated in 1940, and is named after the Venerable John Merlini, the third Moderator-General of the Society of the Precious Blood.

NOLL HALL

Dedicated in the spring of 1955 and housing 98 students, this building is named after the Most Reverend John F. Noll, Bishop of Fort Wayne, an alumnus and generous patron of the College.

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JUSTIN HALL

Saint Joseph's 250 coeds are housed in this three-story, air-conditioned facility. Named after the late Justin H. Oppenheim, member of the College Board of Directors, an alumnus and generous patron, this hall provides two comfortable lounges which join the building's two wings.

SCHWIETERMAN HALL

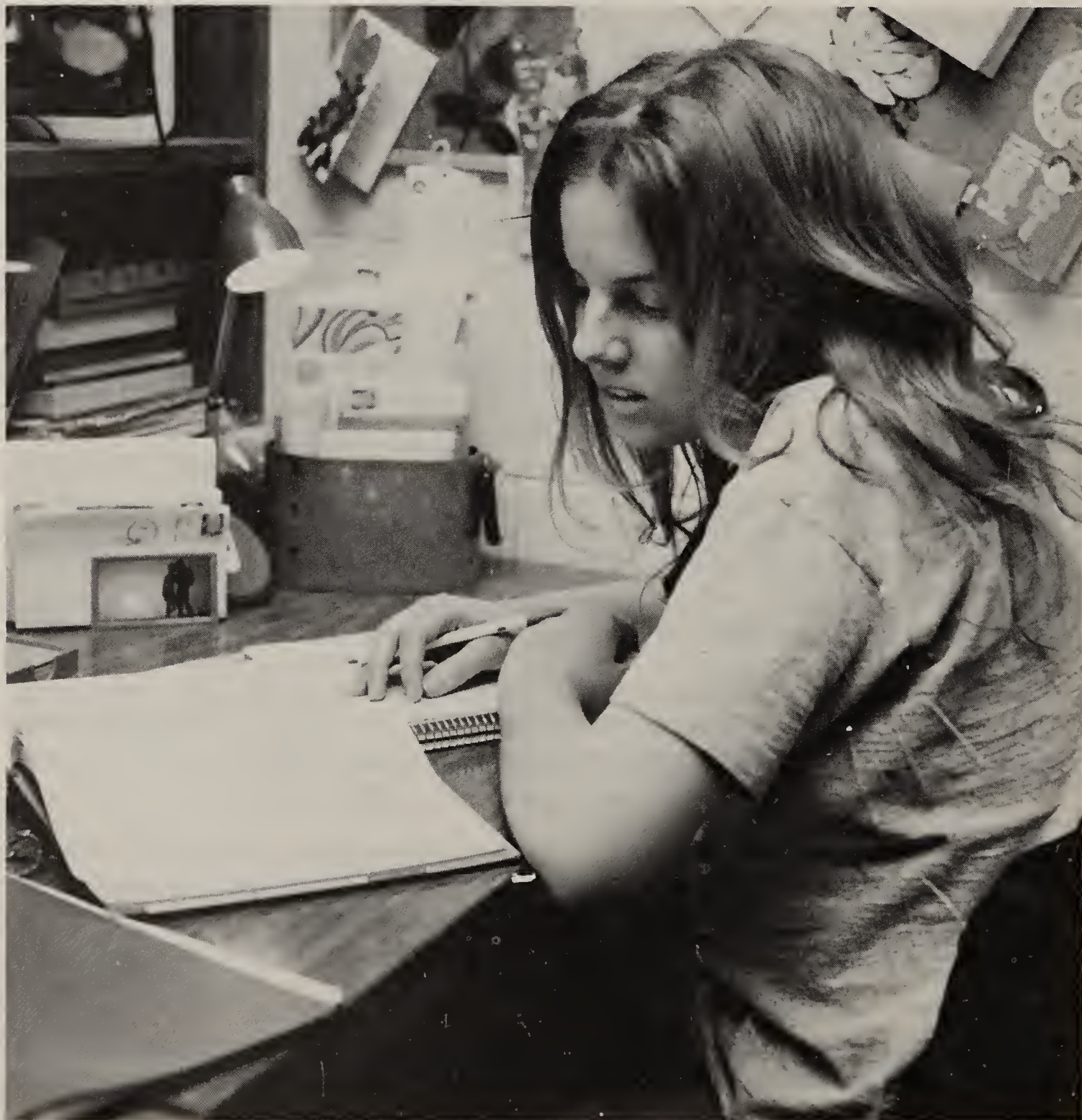
Dedicated in May, 1963, this building serves as the residence for priests, brothers and major seminarians of the Society of the Precious Blood. The Y-shaped structure is adjacent to the Chapel and Xavier Hall.

SEIFERT HALL

The two wings of this building hold 70 students each and is named for Saint Joseph's first president, the Very Reverend Augustine Seifert, C.P.P.S.

WASHBURN HALL

Located in Rensselaer on Grace Street, Washburn Hall is the converted mansion of an old family and houses 35 students.



ADMISSION AND FINANCES

ADMISSION

All correspondence relating to admission should be addressed to the Director of Admissions, Saint Joseph's College, Rensselaer, Indiana 47978. Application for admission should be filed as early as possible and all credentials should be in the hands of the College at least three weeks before the opening of the school term. Application forms will be sent upon request. All credentials submitted as part of the admission procedure become the property of the College.

GENERAL REQUIREMENTS

Whether or not the student meets the entrance requirements will be determined on the basis of the information contained in his high school record. It is understood that these minimum requirements do not necessarily guarantee an applicant's admittance. From among the applicants who meet the entrance requirements, the College reserves the right to select those best qualified to succeed at Saint Joseph's. Therefore, the approval or rejection of an application may, in some cases, be deferred until later in the admission period.

All applicants shall comply with the following requirements:

1. Application form filled out completely by applicant.
2. Official transcript of credits from all high schools and colleges previously attended, mailed directly from the schools to the Director of Admissions.
3. Evidence of good health and proper immunization provided on an official medical certificate form supplied by the College after an application has been approved.
4. Notification of acceptance from the Director of Admissions. Final action in each case is based upon satisfactory evidence of scholastic ability of the applicant.

Applicants who fail to meet the qualifications, and yet for other reasons give promise of success in college, may be permitted to take an entrance examination, or be admitted upon the recommendation of the high school principal or counselor.

Where in individual cases the applicant meets the regular requirements for admission and yet shows signs of inadequate preparation for college, the Committee on Admissions may require further evidence through an entrance examination or other means.

ADMISSION TO FRESHMAN STANDING

Candidates for freshman standing will be selected from applicants who present the following academic credentials:

1. Certificate of graduation from an approved high school. Graduates from other high schools may be accepted conditionally; full standing will be dependent upon subsequent work.
2. Minimum of fifteen units, ten of which must be from the following academic fields: English, foreign language, social studies, mathematics, and natural sciences. It is not necessary that all of these fields be represented in the ten units. The term *unit* expresses a measure of academic credit, representing a subject carried through not fewer than thirty-two weeks with five class meetings a week or the equivalent.
3. Every applicant is *required* to take either the Scholastic Aptitude Test of the College Entrance Examination Board or the American College Testing examination and have the scores sent to Saint Joseph's College. Students wishing to make application to take the test should procure application forms from their secondary schools, or write directly to the College Entrance Examination

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Board, Box 592, Princeton, New Jersey 08540 or P.O. Box 27896, Los Angeles, California for the S.A.T., or to the American College Testing Board, P.O. Box 168, Iowa City, Iowa 52240 for the A.C.T.

4. Every applicant must have a minimum C average in high school work.
5. Students applying for admission may also have a letter of recommendation from their high school forwarded to the Admissions Office.

ADMISSION OF SPECIAL STUDENTS

Students who wish to pursue particular studies without being candidates for a degree may be admitted as special students, if it seems that they can profit from such work. In no case, however, will an applicant under twenty-one years of age be considered eligible to enter as a special student unless he has graduated from high school. Work done by special students will not be counted toward a degree until all entrance requirements have been fulfilled.

EARLY ADMISSION

Exceptionally well-qualified students who have not graduated from high school, but who have completed at least their junior year, may be admitted to freshman standing. Their eligibility for admission will be determined on the basis of high school courses and grades, objective tests and the recommendation of their high school principal or counselor.

ADMISSION OF TRANSFER STUDENTS

Students transferring from other institutions whose curricula are substantially the same as those of Saint Joseph's may be admitted with advanced standing. These students must:

1. Meet the general entrance requirements.
2. Be eligible to continue in the institution from which he wishes to transfer.
3. Be entitled to honorable separation from the institution last attended.
4. Present a minimum 2.00 (C) cumulative index for all completed work.
5. No credit will be allowed for work which is not declared prior to admission.

ADMISSION OF VETERANS

The College has an open admission policy for all veterans. Any veteran with a high school diploma or the general educational development certificate (GED) will be admitted to freshman standing.

The special admissions status which applies to veterans also extends to the wives of those veterans killed in action and those taken prisoners of war.

EXPENSES AND FEES 1973-74

TUITION

Tuition for one semester (full time — 12 to 17 hours).....	\$875.00
\$60.00 per credit hour up to 11 hours.	
This entitles the student to:	
1. Academic instruction and advisory direction.	
2. Ordinary medical care in the Health Service.	
3. Subscription to campus publications.	
4. Admission to all student activities.	
5. Use of athletic facilities.	
Members of the same family attending full time	
simultaneously are charged the following tuition rates:	
Two members (12½% reduction each)	\$765.62
Three members (16⅔% reduction each).....	\$729.17
Four members (25% reduction each).....	\$656.25

BOARD

Board for one semester.....	\$325.00
This entitles the student to three meals a day, six days a week,	
Sunday brunch and dinner, except during scheduled vacation periods.	

ROOM

Room for one semester	\$150.00
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SPECIAL FEES

Application Fee (paid at initial entrance).....	\$ 10.00
Registration Deposit (applicable to tuition and paid by all returning stu-	
dents. Payment is to be made at the time of registration but not later than	
June 25 for the first semester, non-refundable	\$ 25.00
Student Association Fee (paid each semester)	\$ 15.00
Student Center Fee (paid each semester)	\$ 25.00
Day students pay \$2.50 base plus \$1.50 per credit hour up to \$25.00	
Student Identification Card (paid once a year)	\$ 3.50
Room Key Deposit (paid once a year and refunded)	\$ 1.00
Room and Damage Deposit (paid once by all resident students and	
refunded to seniors soon after graduation; if a student withdraws or is	
dismissed the money will be refunded one month after the semester fol-	
lowing the student's departure, if there are no damage charges)	\$ 50.00
Graduation Fee (paid once — senior year)	\$ 25.00

CONDITIONAL FEES

Late Registration.....	\$ 10.00
Tuition per credit hour above 17.....	\$ 60.00
Laboratory Fee for science courses.....	\$7.50 to \$ 15.00
Music Lesson: Lesson per week per semester	\$ 30.00
Student Teaching (Advanced Education students).....	\$ 20.00
Credit by Examination	
Full time students (per credit hour).....	\$ 20.00
Special spring session, and summer session students	
(per credit hour)	\$ 60.00
Course Change	\$ 5.00
Infirmary, each day.....	\$ 5.00
Car Registration (paid once a year)	\$ 10.00
Transcript of Credits.....	Students \$.50 — Graduates \$ 1.00

FINANCIAL REGULATIONS

Upon acceptance by the admissions official, each prospective student is required to make a \$100.00 deposit (refundable up to April 30th). Upon enrollment, the \$100.00 is deducted from semester expenses. In addition all new resident students pay a \$50.00 room and damage deposit (refundable if there are no room damage charges). All fees are to be paid by August 15th for the first semester, and by registration time for the second semester. Each month a 1% service charge will be levied on all unpaid balances. The service charge is computed by a "PERIODIC RATE" of 1% per month which is an ANNUAL PERCENTAGE RATE of 12% applied to the previous balance.

No student will be allowed to register for any subsequent term if there are any unpaid balances on the student's account. Degrees, transcripts, and letters of honorable separation are withheld from those who have not settled their financial obligations to the College including, if any, all collection fees, attorney's fees, and court costs.

If final payment is by personal check at least two weeks must be allowed for clearance of the check.

Remittance should be made payable to Saint Joseph's College by bank draft, personal check, or postal money order through the Rensselaer Post Office, and mailed to: Vice-President for Business Affairs, Saint Joseph's College, Rensselaer, Indiana 47978.

Remittance should be made payable to Saint Joseph's College by bank draft, personal check, or postal money order through the Rensselaer Post Office, and mailed to: Office of the Vice-President for Business Affairs, Saint Joseph's College, Rensselaer, Indiana 47978.

REFUND POLICY

Refund or room cost will not be made except for the following reasons: (a) dismissal from school for academic reasons; (b) leaving school for health reasons confirmed by the college health center. Under these circumstances, the room cost will be assessed at \$2.00 per day. The charge per day for board is \$3.50, no refund allowance made for incidental absences. Student Association fee is non-refundable. The Student Center fee is refunded on the same basis as tuition. Tuition charges will be assessed on the following percentage basis: One day to two weeks, 20%; between two and three weeks, 40%; between three and four weeks, 60%; between four and five weeks, 80%; over five weeks, 100%. Tuition, room and board, and all other charges for the spring and summer sessions are published separately in bulletins announcing these sessions. Refunds for these sessions are made on the basis of the proportional length of these sessions to a regular semester.

OPTIONAL PAYMENT PLANS

A national organization in educational financing, *College Aid Plan, Inc.*, 1008 Elm Street, Manchester, New Hampshire 03101, has available a low-cost plan which also includes insurance protection. A parent may select a plan to cover 1-2-3 or 4 consecutive years' expenses. These plans are flexible and can be modified to cover yearly changes in educational expenses.

The Insured Tuition Payment Plan offers a provision that divides the complete educational expense into monthly installments and insures the parent, paying benefits both in case of death or total and permanent disability. Write: Insured Tuition Payment Plan, 6 St. James Avenue, Boston, Mass. 02116.

For those who prefer to pay their expenses on a monthly basis, the services of *The Tuition Plan, Inc.*, may be utilized. This and the College Aid Plan, Inc., are comprehensive programs covering from one to four years of schooling. Information concerning this service may be obtained by writing The Tuition Plan, Inc., 575 Madison Ave., New York 10022.

Detailed information can be obtained by writing to any of the above.

FINANCIAL AIDS

The College adopts as its own the philosophy that the primary responsibility for financing a college education rests upon the student's family. Financial aid from college and other sources is viewed only as supplementary to the effort of the family. The student requesting financial aid is also expected to contribute toward his own educational expenses, through summer or school term earnings or loans in any reasonable combination. The College is prepared to assist the student through academic scholarships, grants, loans and employment.

APPLICATION FOR AID

All necessary financial application forms can be obtained from the Office of Admissions.

SCHOLASTIC APTITUDE TEST

All candidates for financial aid must take the Scholastic Aptitude Test (morning test of the College Entrance Examination Board) or the ACT tests (The American College Testing Program). Complete information can be obtained from high school counselors. The November or December test is preferred, although other earlier test scores are acceptable. The scores must be submitted to the College before February 1.

COLLEGE SCHOLARSHIP SERVICE

Saint Joseph's College participates in the College Scholarship Service. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists Saint Joseph's College in determining the student's need for financial assistance but does not itself give financial aid. Recommendations from CSS help the College to allocate its resources fairly.

PARENTS' CONFIDENTIAL STATEMENT

Parents of students seeking financial aid are required to submit the PCS for the College Scholarship Service where it is processed and evaluated. Saint Joseph's College should be designated as one of the recipients of the Financial Need Analysis Report. The CSS will, at the parents' request, send the financial analysis and recommendations to Saint Joseph's. The Financial Need Analysis Report must be in the Office of the Director of Student Financial Aids by April 1. The PCS form can be obtained from the high school counselor, or from the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540, or P.O. Box 1025, Berkeley, California 94701, or P.O. Box 881, Evanston, Illinois 60204. The ACT financial aid analysis program is also acceptable.

ACADEMIC SCHOLARSHIPS

Saint Joseph's College annually offers scholarships to worthy and needy students. The scholarships are awarded on the basis of academic achievement and promise, as determined by the student's high school record, in conjunction with SAT scores. Normally those students seeking academic scholarships range in the upper quarter of their class in rank and have SAT scores of 1000 or higher.

The amount of the scholarship award is based on the student's financial need determined by the Financial Aids Committee in cooperation with the College Scholarship Service. For this aid the Parents' Confidential Statement is required.

Recommendations from the CSS are made to the College about two or three weeks after the parents have forwarded their statement to the CSS.

ENDOWED SCHOLARSHIPS

The farm lands of the College are the permanent endowment of the institution. The net income from these lands, including the mineral deposits, have been set aside as endowments over the years to provide memorial scholarships. The income from these gifts is awarded by the Financial Aids Committee each year. These endowed scholarships are:

The Father Seifert Scholarship. Income from mineral deposits.

The Saint Elizabeth Foundation. A fund established by Mrs. Elizabeth Mullen. Interest on \$5,000 is awarded to a pre-theology student.

The Monsignor Moore Scholarship. Interest of \$7,000 is awarded to a pre-theology student.

The Michael and Mary Brisch Scholarship. Interest on \$5,000 is awarded to a pre-theology student.

The Monsignor O'Keefe Scholarship. Interest on \$7,000 is awarded.

The Christopher Jones Memorial Scholarship. The fund has been established by his grandparents, Irene and Arthur L. Hellyer, with the income awarded to a needy student for the priesthood.

The Schumacher Family Scholarship. The interest on \$18,000 is awarded.

The John W. Sweeterman Scholarship. The income is from an endowment, gifted to the College in 1970.

The Frank M. McHale Scholarship. The interest on funds provided by friends of Mr. McHale on the occasion of his 70th birthday and added to each year by Mr. McHale. (Presidential designation)

SPECIAL SCHOLARSHIPS

Special scholarship funds have been established on occasion that are not part of the permanent endowment but are awarded by presidential or donor designation. These are: The Frank Callahan Scholarship, The Central Newspapers Foundation Scholarship, The Cummins Engine Scholarship, The Frank Gallucci Scholarship, The Indiana Spring Scholarship, The Cyril Knue and Fr. Cyril Kennedy Scholarship, The James McCahey Scholarship, The Bishop Leo A. Pursley Scholarship, The Trustees Scholarship and The State Bank of Rensselaer Scholarship.

FINANCIAL AIDS COMMITTEE

The awarding of and final judgment on all financial aid rests with the Committee on Student Financial Aids. The chairman of the committee is the Director of Student Financial Aids, to whom all communications should be directed. No decisions, however, are made until the student has been officially admitted.

RENEWAL OF SCHOLARSHIPS

The first scholarship is granted for the freshman year. It is thereafter renewable every semester which the student spends at Saint Joseph's College until he graduates, provided that in the previous semester he has maintained at least a B average and his need continues. If a student loses his scholarship he can have it reinstated only by special action of the Committee on Student Financial Aids, which will normally expect him to have at least a cumulative average of B.

UPPERCLASS SCHOLARSHIPS

There are a limited number of scholarships available to sophomores, juniors and seniors who give evidence of superior scholarship and have financial need. They will ordinarily be expected to have at least a cumulative B average in addition to a B average in the previous semester. Such scholarships can be renewed as long as the student continues his B average work, continues to have financial needs, and remains in good social standing.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS

Supplemental Educational Opportunity Grants are available from the Federal government through the College to a limited number of students with exceptional financial need who require these grants to attend college. To be eligible, the student must show academic or creative promise. The student's parents must be able to furnish less than \$626.00 annually towards the student's education, and have an annual income of less than \$9,000.

Eligible students who are accepted for enrollment on a full-time basis, or who are currently enrolled in good standing, may receive Supplemental Educational Opportunity Grants for each year of their higher education, although the maximum duration of a grant is 4 years. Grants range from \$200 to \$1000 a year and can be no more than one-half of the total assistance given the student. The amount of financial assistance a student may receive depends upon his need — taking into account the student's financial resources, those of the parents and the budget cost of Saint Joseph's College. Students seeking the grant should complete the Application for Financial Aids. These applicants should follow the same procedure required for academic scholarships.

COLLEGE WORK-STUDY PROGRAM

Students, particularly those from low-income families who need a job to help pay for college expenses, are potentially eligible for employment by the College under federally-supported Work-Study programs. Eighty percent of the money is furnished by the federal government and twenty percent by the College. Full-time students may work up to 15 hours weekly. During the summer or other vacation periods, they may work 40 hours per week under this program. Work may be for the College, or for approved off-campus agencies.

STUDENT EMPLOYMENT

In addition to the College Work-Study program, there are a limited number of other jobs. Some students find it necessary to contribute to their own support through job employment. The student should bear in mind that employment should not detract from academic needs. The working time is normally limited to 15 hours a week.

On campus there are calls for clerical and laboratory assistants, but most openings for employment are for maintenance and dining hall positions.

Application for campus employment should be filed after one is on campus and enrolled. Resident students may not accept employment on campus or engage in any business enterprises during the school year without permission of the Personnel Dean.

VETERANS' ASSISTANCE

Saint Joseph's College is officially approved as a school for veterans of military service and for war orphans under Public Law 634. Financial assistance from these sources is granted from public funds.

VOCATIONAL REHABILITATION

Under the provision of Public Law 565, the federal government and the state jointly provide funds for grants to students who have a physical or mental impairment which constitutes a vocational handicap. The State Vocational Rehabilitation Division is responsible for the determination of these grants.

MUSIC GRANTS

The College annually awards music grants to musically-talented students who are in need of financial aid. The grants are limited to \$200.00 per year and normally go to those who will play in the band. Applicants for these grants must submit the Music Form.

ATHLETIC GRANTS

Athletic Grants are awarded to qualified athletes. Presently, the College awards grants in football and basketball.

STATE SCHOLARSHIP PROGRAMS

State Scholarship programs are second only to federal programs in the impact they have had on the student financial-aid world. These programs vary from state to state in purpose and structure. Presently only 18 of the 50 states have such programs. They are: California, Connecticut, Illinois, Indiana, Iowa, Kansas, Maine, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Vermont and Wisconsin. It is interesting to note that while none of the midwestern states permit their scholars to leave the state for study, seven of the northeastern states do permit this. Since laws do change, applicants seeking aid from these programs must review the matter with their high school principal or counselor for precise and pertinent details.

NATIONAL DIRECT STUDENT LOANS

Saint Joseph's College participates in the National Direct Student Loan Program. High school graduates who have been accepted for enrollment in full-time courses and who need financial help for educational expenses are eligible for student loans. Ninety per cent of these funds are provided by the federal government; ten per cent is supplied by the College.

A student may borrow up to \$1,000 each academic year not exceeding a \$10,000 total. The repayment period and the interest do not begin until nine months after the student ends his studies. The loans bear interest at the rate of 3 percent per year and repayment of principal may be extended over a 10-year period.

Borrowers who elect to teach in certain eligible schools located in areas of primarily low-income families or in schools of handicapped children may qualify for cancellation of their entire obligation at the rate of 15 percent per year.

The College approves the loan and is responsible for its collection. Repayment may be deferred for a three-year period while a borrower is serving in the Armed Forces, with the Peace Corps, or as a Volunteer in Service to America (VISTA). Repayment is deferred, too, for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic load.

GUARANTEED LOANS

Under this program a student may borrow from a bank or other financial institution. The government will pay the interest on those loans or those portions of loans that are based on need. The loan is due nine months after the student has left college. Applications are available at most banks.

ACADEMIC POLICIES

ENROLLMENT

All students are expected to report to the campus on the date officially designated in the College calendar. No new student will be admitted unless he has received official notice of acceptance from the Director of Admissions.

Students are enrolled as regular when they meet all entrance requirements and have been approved for a course of studies leading to the bachelor's degree; as special if the student is not at present working toward a degree. Students may be registered as either full-time or part-time students. A full-time student is one who is carrying a minimum of twelve semester hours of college credit, or who is registered for class work totaling at least fifteen periods per week.

LATE ENROLLMENT

Students failing to enroll or to pay fees and tuition on enrollment day as designated in the catalog must pay a late enrollment fee.

REGISTRATION

No student will receive credit for any subject taken in a class for which he has not been duly registered. After a student's class schedule has been approved, changes in courses or class sections must, in each instance, be approved and properly recorded with the Registrar.

CREDITS

The unit of academic credit is the semester hour. In courses other than Core, it represents the work of a semester course which meets once weekly for a fifty-minute period requiring approximately two periods of preparation. A class which meets twice weekly carries two hours of credit; three times weekly, three credits. One laboratory period (two to four hours) is the equivalent of one class meeting. The passing grade required before a student can receive credit is D.

CREDIT BY EXAMINATION

Any regularly-enrolled student of Saint Joseph's College, in good academic standing, may receive credit for any course in which he gives evidence of normal achievement by passing an examination in the subject matter of the course. All grades will be recorded, and credit will be granted for any passing grade. (See restrictions listed below under "Eligibility".)

1. Schedule of Tests: (a) at the beginning of the first semester; (b) the first semester final week; application must be made before September 29th, (c) the second semester final week; application must be made before January 29th.

2. Application to take credit-by-examination is made at the Office of the Vice-President for Academic Affairs. The fee for each test is \$20.00 per credit hour. For special students, spring session and summer session students, the regular tuition rates of \$60.00 per credit hour will apply for credit attempted via the credit by examination option.

3. Eligibility. No student may receive credit by examination (a) in a course for which he is currently enrolled for credit, or has, at some time, enrolled for credit or audit; (b) in courses involving laboratory experience or practice; (c) in Core courses; or (d) in introductory foreign language courses for which a student shows high school credit; (e) applied music. (In programs requiring two years of foreign language, the requirement is fulfilled by advanced placement plus the completion of the sophomore year of the language course.)

4. Recording of tests. A record shall be kept in the student's folder of all tests taken with the intention of receiving credit by examination. Every grade, both passing and

failing, will be entered in his permanent scholastic record and designated as Credit by Examination.

5. The tests shall be tests of the type given in the course for which the student is seeking credit. Such tests shall be made out, scored, graded and administered by an instructor appointed by the Vice-President for Academic Affairs.

TELEVISION CREDIT

Students enrolled at Saint Joseph's College may receive credit for television courses: (a) on a transfer basis from any recognized college granting such credit; (b) from television courses conducted under campus supervision.

CLEP

Credit is available upon successful completion of the College Level Examination Program (CLEP). A score at the 40th%ile or higher on the sophomore norm group is required for credit.

AUDITING COURSES

Auditing a course means attending class without obligation with respect to regularity of attendance, outside class work, or examinations. Students register for audit courses in the same manner as for credit courses. The total number of credit and audit hours combined for which a student registers may never exceed twenty-one a semester. Audited courses are recorded in the Registrar's Office but do not form a part of the student's permanent scholastic record. For full-time students the fee for auditing a course is \$5.00 for each semester hour in excess of seventeen hours of credit and audit work combined. For part-time students the fee is \$15.00 a semester hour.

CLASS SCHEDULE

A "Schedule of Classes" is published at the beginning of each semester, showing the courses that are offered, the time of meetings, the room numbers, and the instructors. The College reserves the right to withdraw an announced course for which fewer than five students register. It also reserves the right to assign students to class sections and to limit the number of students who may elect a course in case the class becomes overcrowded or is of such a nature that limited enrollment is required.

Faculty counselors assist students in planning their programs of study. In all cases it is advisable that the student select his major by the end of his sophomore year and consult his faculty counselor regarding the pattern of courses for the major and minor sequences and the appropriate electives. A student's semester schedule of classes will not be considered final until it has been approved and filed in the Office of the Registrar.

CHANGE OF SCHEDULE AND CANCELLATION OF COURSES

During the first week of classes in each semester a student may, with consent of the Registrar, change his schedule by adding or cancelling courses. Courses cancelled during this period do not appear on his permanent record.

CLASS LOAD

The normal amount of work for which a student registers in one semester is fifteen or sixteen hours. To be classified as a full-time student he must register for a minimum of twelve semester hours, or for class work totaling at least fifteen periods per week. Permission to register for a course in excess of eighteen hours must be obtained from the Vice-President for Academic Affairs; the basis for such permission shall be the student's ability as evidenced by previous college work. An extra tuition charge of \$60.00 for each credit hour in excess of sixteen will be applied to the student's account, except that students maintaining a cumulative index of 3.25 or better may carry nineteen hours before an extra charge is made.

CLASS ATTENDANCE

All students are expected to attend all lectures, laboratory exercises, and scheduled examinations.

For sophomores, juniors and seniors, class attendance is the student’s responsibility. Freshmen and students enrolled in freshman courses (19 and below) are required to attend all class meetings.

The total number of absences tolerated in a freshman course is not to exceed the number of times that course meets each week. If the absences exceed the number tolerated in a course, the reason for the additional absence must be approved by the Vice-President for Academic Affairs, verification of this acceptance will be forwarded to the instructor within seven days after the student’s return to class.

The following are the reasons for which official excuses are given:

- a) Such sickness of the student as incapacitates him for class attendance (so attested by the infirmarian or a physician).
- b) Death or serious illness in the student’s immediate family.
- c) Attendance at the wedding of a brother or sister.
- d) Properly authorized engagement in the interests of the College.
- e) Properly authorized participation as a team member in intercollegiate competition.
- f) Official government summons beyond the control of the student.

Instructors, in individual instances, may exempt sophomores and upperclassmen from the attendance regulation in freshman-level courses. Furthermore, it is within their jurisdiction to handle the matter of excessive class absence at any level.

WITHDRAWALS FROM COURSES

After the limit for changes in class schedules, students may not withdraw from a course for which they are registered except with permission of the Vice-President for Academic Affairs, after presenting written evidence of consultation with their professor and faculty advisor. Forms for this purpose can be obtained at the Office of the Vice-President for Academic Affairs. Such withdrawals will be indicated on the student’s record with letter “W.” By discontinuing a course without an official withdrawal, he automatically incurs an “F.” No official withdrawals will be given later than two weeks before the end of the semester or one week before the end of the spring or summer session.

ACADEMIC CLASSIFICATION

A student is classified as a freshman if he meets the entrance requirements; as a second semester freshman when twelve semester hours have been earned; as a sophomore when 28 hours have been earned; as a junior when 58 semester hours have been earned; and a senior when 92 semester hours have been earned. In addition, for purposes of probation and dismissal, a student is considered a second semester freshman after he has been a full time student for one semester and a sophomore after two semesters as a full-time student and a junior after four semesters.

GRADING SYSTEM AND QUALITY POINTS

Grades are given in letter symbols.

Grades	Meanings	Quality Points
A	Excellent	4
B	Above Average	3
C	Average	2
D	Acceptable but Poor	1
F	Failing	0
W	Withdrawal	—

I	Incomplete
Z	Non-Credit/Audit
N	Non-Pass (no credit)
P	Pass (grade not included in index)

A grade of A represents greater accomplishment in a four-credit course than does the same grade in a two or three-credit course. In order that a student's degree of success on the basis of both factors (amount of work represented by his courses, and the grades received) may be judged, use is made of the quality point. Quality points assigned to a grade multiplied by the credit allowed in a subject will give the total points accruing to the student for his achievement in that subject.

SCHOLASTIC INDEX

The index expresses the ratio of a student's total quality points to his total hours attempted. This ratio is found by dividing the sum of the student's quality points by the sum of the hours attempted. Thus, if his points equal his hours attempted, his index will be 1.00, indicating that he is maintaining himself at the general level of D.

INCOMPLETE GRADE

The incomplete grade is given when under unusual circumstances a final grade cannot be given. It is not to be used by either the student or the teacher as a way of indiscriminately extending the semester or other grading period. A course in which the grade of I is received will not be considered in computing the index until the incomplete grade is removed. A service fee of \$10.00 is charged for removal of an I grade, except when in the judgment of the Registrar, the incurring of the I was beyond the student's control because of sickness or other extraordinary cause. If the I grade is not removed within five weeks after the close of the semester, a grade of F will be assigned.

CHANGE OF GRADE

No grades, once submitted to the Registrar's Office, can be changed, apart from the removal of I grades, except by written petition of the teacher to the Vice-President for Academic Affairs.

REPETITION OF COURSES

If a student repeats a course which he previously passed, only the higher of the two grades which he received for the course is counted in computing his cumulative index. In courses with a grade of F repeated successfully in the spring session of 1972 or later, the F will not be used in calculating the cumulative index.

PASS/NOT PASS OPTION

A student may count a maximum of 24 hours of credit towards graduation under the pass/not pass option. The pass/not pass option is limited to courses other than those required in his major or minor fields or those required of all students by the college (e.g. Core). To receive a *pass* a student must achieve a C or better; below a C, the student will receive a *not pass*, which will be recorded on his record as no credit. The student must decide within the time limit for change in class schedule whether he will take a course for a *gradé* or take it under the pass/not pass option. Also, no student will be allowed to take credit by examination in a course under the pass/not pass option.

GRADE REPORTS

Grade reports for all students are made to the Registrar once each semester. Reports are issued to parents and students after each grading period. There are no mid-semester grades except for freshmen.

DEAN'S LIST

Students with a semester index of 3.50 or higher are placed on the Dean's List.

HONORS SEMINAR

To promote scholarship and initiative on the part of academically-superior students, those departments which offer a major also conduct an honors seminar. This is a course in independent study, directed reading and research in a student's field of concentration, the results of which are to be formulated in a research paper. To be admitted the student must have maintained a 3.00 cumulative index in his major field. Topics for research must be approved by the student's major professor. Application for the honors course is made with the Vice-President for Academic Affairs in the student's second-last semester; the student registers for the course in his last semester.

GRADUATION WITH HONORS

Graduation with honors is conferred on the basis of a student's cumulative index through four years of 3.40 for the honor CUM LAUDE, of 3.60 for MAGNA CUM LAUDE, and of 3.80 for SUMMA CUM LAUDE.

INDEPENDENT STUDY

This program provides the opportunity for a student, during regular semesters, to pursue special topics, reading programs or projects within existing departments apart from courses listed in the catalog. The credit and grade thus earned will be entered on the student's academic record and count toward graduation. The number of independent studies a student may enroll in is limited to four. The student registers for the independent study during the regular registration period at which time he must present evidence of having secured the sponsorship of a faculty member.

TRANSFER POLICY

A student is granted honorable separation provided he is in good standing. This signifies that the student is eligible to continue, to return, or to transfer elsewhere.

Transfer students or returning students wishing to transfer credits from non-credited colleges — that is, institutions not accredited by a recognized national, regional, or state agency — may be admitted provisionally.

To validate credit from non-accredited institutions the student may

- a) utilize the credit by examination policy *or*
- b) maintain an index comparable to that achieved at the non-accredited institution for one academic year at Saint Joseph's College.

WITHDRAWAL FROM THE COLLEGE

Any student (except a graduating senior) who is aware that he will not register for the following semester is required to inform the Registrar and the Dean of Students. Any student who withdraws during the semester must notify the Dean of Students and the Registrar. Any student who withdraws without proper notification will forfeit honorable separation. Students who discontinue either during or at the end of a semester without having settled their financial obligations to the College will be refused honorable separation and official transcript of credit until all accounts are paid.

PROBATION AND DISMISSAL

In order to graduate a student must have a cumulative index of 2.00. While this index is not required at any point in the student's career prior to graduation, he must nevertheless show a steady progress towards this goal. Thus it is required that the student must maintain a cumulative index of 1.80 during his Freshman and Sophomore years and a cumulative index of 1.90 during his Junior and Senior years. In any semester in which he fails to achieve the required cumulative index he is placed on

probation. If he fails to achieve the required cumulative index at the end of the next semester, he is dropped for poor scholarship. In individual cases, and only where special circumstances are involved, the student may appeal to the Academic Cabinet for continuation in the College. This appeal must be made in writing to the Vice-President for Academic Affairs within two days after he receives notification of his status. For purposes of computing the cumulative index, a summer or spring session is considered as a part of the student's previous semester.

Students who, at the semester grading period, fail in as much as one-half of their work will be dropped for poor scholarship.

Students dropped for poor scholarship may, after the lapse of a semester, apply for readmission. If their application is approved, they will be readmitted on probation and must maintain the scholastic index required by their classification. If dropped for poor scholarship a second time, they are not eligible for readmission.

SUMMER SESSIONS

Saint Joseph's College offers an extensive, fully-accredited spring and summer program. In addition to departmental course offerings, the College's summer program includes Church Music Program for both graduate and undergraduate credit and the Summer Scholarship Program.

JUNIOR YEAR ABROAD

Students who plan to spend their junior year abroad are to apply to the Office of the Vice-President for Academic Affairs at the beginning of their fourth semester.

Students on Junior year programs are required to complete all graduation requirements.

ATHLETIC ELIGIBILITY

A student is eligible to participate in intercollegiate athletic contests under the following conditions:

1. Be of approved physical condition as certified by the College physician.
2. Meet the requirements for classification as a regular full-time student at St. Joseph's College.
3. Be enrolled as a full-time student both in his previous semester and in the present semester, unless he is a beginning Freshman.
4. Be in good academic standing as determined by the scholastic index requirement according to his classification.
5. Be eligible to play in a designated game according to the rules, policies, and approved practices of the *Indiana Collegiate Conference* and *National Collegiate Athletic Association* with respect to amateur standing, length of previous participation, institutional transfer and similar matters.

It is the responsibility of the players as well as the coaching staff to know and comply with the letter and the spirit of the athletic policies adopted and approved by the faculty.

AWARDS AND PRIZES

The recognition of merit in the individual is natural and proper as an incentive to personal and social progress. The awards and prizes listed below represent the College's attestation of the recipient's excellence in written and oral expression as demonstrated in the annual competitive exercises in a variety of fields. In all cases the College reserves the right to withhold an award if, in the option of the judges, none of the entries in a contest attains a standard of excellence sufficient to merit the distinction implied by the conferring of the award.

THE COLLEGE COMMUNITY AWARD

Given occasionally by Saint Joseph's College to an outstanding member of the local community for distinguished service.

JOHN HEIMANN AWARD

An award to a music major for excellence in scholarship and general musicianship. The Heimann prize is named in memory of the late father of Fathers Ambrose and Lawrence Heiman. Donor: Dr. John B. Egan.

ERNST & ERNST SCHOLARSHIP AWARD

A plaque and a scholarship in the sum of \$500.00 are presented annually by the firm of Ernst & Ernst to a junior accounting major (to be used in his senior year) selected by the accounting faculty. The criteria for selection include: (1) major field of study must be accounting; (2) evidence of outstanding ability and potential; (3) the recipient should exhibit some evidence of interest in the field of public accounting; and (4) personal financial need should not be a factor.

JOHN P. HRUZIK ('52) GEOLOGY AWARD

Presented annually to a senior geology major chosen by the geology faculty and Geology Club.

INDIANA ASSOCIATION OF CERTIFIED PUBLIC ACCOUNTANTS, INC. AWARD

A plaque is presented annually by the IACPA to the outstanding senior accounting major. The selection of the recipient is made by the accounting faculty on the basis of criteria which include: (1) achievement of at least a 3.00 index in accounting and also on a cumulative basis; (2) willingness to accept responsibility; (3) extracurricular activities, particularly of a leadership nature; and (4) good moral character.

INDIANA ASSOCIATION OF CERTIFIED PUBLIC ACCOUNTANTS, INC. SCHOLARSHIP AWARD

This scholarship was established by the Educational Foundation of the IACPA to make scholarship funds available to qualified students for the study of accountancy. The grants are made available to students who are residents of Indiana and have completed five semesters of college work leading to a degree in accounting. The amounts of the scholarships are determined annually and are not to exceed \$1,500 per student. Applications are submitted to the Foundation Trustees who consider the following factors in determining the scholarship recipients: (1) academic achievement; (2) college activities; (3) financial need; and (4) appearance and personality.

THE FATHER EDWIN G. KAISER FACULTY SCHOLAR AWARD

Given occasionally to a Saint Joseph's faculty member for outstanding scholarship.

RICHARD L. KILMER PRIZE IN HISTORY

An award of merit presented annually by the Department of History to a student who has excelled in the fields of history and its related areas. The award is in memory of Richard L. Kilmer, former Saint Joseph's professor who died in 1967.

ADAM P. LESINSKY AWARD

Awarded annually to the outstanding member of the Saint Joseph's College Band.

MARLOWE FRANCIS McCREA SCIENCE CITATION

This award is presented annually to an outstanding student in the sciences by William J. McCrea, in memory of Marlowe Francis McCrea.

NATIONAL HONORS SOCIETIES

On October 15, 1956, the Gamma Delta Chapter of Delta Epsilon Sigma, National Catholic Honors Society was installed at the College. Junior students who have a minimum of a B average are eligible for this distinction; in the spring semester of 1960, the College established a chapter of Phi Eta Sigma, a national honors society for freshmen and sophomores; eligible are freshmen with a 3.50 index.

FATHER RAPP SPEECH AWARD

This award is sponsored semi-annually by the Department of Communications and Theatre Arts in honor of the Rev. Ildephonse Rapp, Late Professor Emeritus of Speech and Scholar of Rhetoric. Three trophies, first, second and third place, are awarded to the superior students selected from the basic course in speech for participation in the contest. The awards are presented semi-annually at the conclusion of the final contest in the college theater. A plaque inscribed with the names of the first place winners is also maintained in the lobby of the auditorium.

SAINT JOSEPH'S COLLEGE ALUMNI BOARD

SENIOR-OF-THE-YEAR AWARD

Presented by the Director of the Alumni Association to the senior who has made outstanding contributions to his class and the College.

SCHUYLER ROBINSON AWARD

This cash award is for excellence in applied music as demonstrated in public performances.

TRUSTEE'S BUSINESS AWARD

A plaque and the sum of one hundred dollars, donated by the Board of Trustees of Saint Joseph's College, is annually awarded to the student graduating from the Department of Business or Accounting, who, in the estimation of a committee of instructors, is most deserving of the award in view of his superior scholarship and his leadership in extracurricular activities. In order that a student may be considered for the award he must have achieved a 3.00 cumulative index.

WALL STREET JOURNAL AWARD

A year's subscription to the *Wall Street Journal* and a plaque are presented by the Department of Business Administration to a senior business major.

LOUIS B. WHITE AWARD

This special citation of merit is presented annually by the Glee Club to the most outstanding member of the mixed chorus. The award was initiated in memory of Louis B. White, '52, former president of the Glee Club, who gave his life for his country in 1953.

J. KEVIN WOODS MEMORIAL AWARD

This special citation of merit is presented annually by the Accounting Club to an outstanding senior. The award, in memory of J. Kevin Woods, accounting alumnus of 1966 who was killed in action in Viet Nam in 1968, was established by his family and friends. A monetary sum determined annually is also presented to the recipient. The following criteria should apply in the annual selection of the student who receives the award: (1) must be an accounting major; (2) must have maintained C grades or better; and (3) the senior accounting majors (not the faculty) select the student most deserving of the award.





DEPARTMENTS, MAJORS, MINORS AND DEGREES OFFERED

Department	Major (36 hrs.)	Minor (18 hrs.)	Group	Major Degree
Accounting-Finance			x	B.S.
Accounting	x	x		B.S.
Accounting-Computer Science			x	B.S.
Finance	x	x		B.S.
Finance-Accounting			x	B.S.
Finance-Computer Science			x	B.S.
Art		x		
Biology	x	x		B.A., B.S.
Biology-Chemistry			x	B.A., B.S.
Medical Technology	x			B.S.
Business Administration	x	x		B.A., B.S.
Business Administration- Data Processing			x	B.A., B.S.
Chemistry	x	x		B.A., B.S.
Computer Science		x		
Communications and Theatre Arts	x	x		B.A., B.S.
Economics	x	x		B.A., B.S.
Education Secondary		x		
Elementary	x			B.S. in Educ.
Engineering				
Five year program*	x			B.S.
English	x	x		B.A., B.S.
Environmental Science	x			B.S.
Geology	x	x		B.A., B.S.
History	x	x		B.A., B.S.
Languages				
Classical		x		
French	x	x		B.A.
German		x		
Spanish		x		
Mathematics	x	x		B.A., B.S.
Mathematics-Physics			x	B.A., B.S.
Math-Computer Science			x	B.A., B.S.
Music	x	x		B.A., B.S.
Church Music	x	x		B.A., M.A.
Philosophy	x	x		B.A., B.S.
Physical Education	x	x		B.S.
Physics	x	x		B.S.
Political Science	x	x		B.A., B.S.
Psychology	x	x		B.A., B.S.
Sociology	x	x		B.A., B.S.
Theology	x	x		B.A., B.S.

Five-year Engineering programs are available in Aeronautical, Agricultural, Chemical, Civil, Electrical, Industrial, Mechanical and Metallurgical Engineering. After three years at Saint Joseph's and two or three semesters at University of Detroit, Marquette University, Purdue University, Rose Hulman Institute, Saint Louis University, University of Illinois, University of Notre Dame or any accredited engineering college, the student may qualify for a B.S. degree from Saint Joseph's. After his fifth year, he qualifies for a Bachelor degree in Engineering from one of these universities.

GRADUATION REQUIREMENTS

MAJOR SEQUENCE

The major sequence consists of 36 semester hours of credit in a department; (Geology, 32 hours). For a group major 54 hours of credit are required in specified departments. *Students should observe special regulations under each department*, especially regarding the prerequisites for major sequences. All degree candidates must complete either a major sequence or group major.

MINOR SEQUENCE

The minor sequence consists of 18 semester hours of credit in a department chosen for its relation to the student's major sequence. All students must complete either a minor sequence or a group major.

SEMESTER HOURS AND QUALITY POINTS

1. A minimum of 120 semester hours and 240 points are required for graduation (a cumulative index of 2.00).
2. The number of quality points earned in courses of the major or group major sequence must equal at least twice the number of credit hours taken (a cumulative index of 2.00 in the major field).
3. Not more than 48 hours in a single department will be counted toward the minimum total required for graduation.

RESIDENCE

Completion of the college course requires that the student be *in residence for eight semesters or the equivalent*. Twelve hours of summer session credit are considered equivalent to one semester. Work completed at off-campus extension centers is accepted up to sixty semester hours. Not more than twelve within this maximum of sixty hours may be taken by correspondence. The last thirty semester hours and sixty quality points must ordinarily be completed on the Saint Joseph's College campus. For exceptions see, "Degree in Absentia," "Junior Year Abroad," and "Honors Students."

FOREIGN LANGUAGE

A modern or classical language is not required of all students. German is specifically required of chemistry majors; German or French is strongly recommended for students planning to enter graduate school. Any student who is a candidate for a bachelor of arts degree is required to take two years of a language or show a two-year competency and/or pass proficiency exams.

ELECTIVES

Additional courses may be necessary to complete the total of 120 semester hours and a minimum of 240 quality points required for graduation.

DOUBLE MAJOR

By fulfilling the requirements of two majors during the normal residence period, a student may graduate with a baccalaureate degree in the double major — for example, a bachelor of arts in English and history. This type of degree should not be confused with a group major program, such as biology-chemistry or mathematics-physics.

SECOND BACHELOR DEGREE

A student holding a bachelor's degree from any accredited college may qualify for a degree from Saint Joseph's College in a second discipline by spending the equivalent of at least one semester in full-time residence at Saint Joseph's and fulfilling the departmental requirements for the second major.

DEGREES IN ABSENTIA

Students who have attained senior standing after the completion of three years of residence and who have then transferred to a school of law, engineering or medicine may secure the degree *in absentia*. In addition to the normal graduation requirements the candidate will be required to show successful completion of the first year's work in the professional school in which he has enrolled.

GRADUATION WITH HONORS IN ABSENTIA

Students transferring to a professional school and planning to graduate *in absentia*, may graduate with honors if the cumulative index for work at Saint Joseph's College and at the professional school meets the required standard.



GRADUATION CHECK LIST

The student is ultimately responsible for the fulfillment of all that is required for graduation. Ordinarily he is held to the requirements of the catalogue in force at the time of his first enrollment; all subsequent changes will be announced by official bulletins from the Office of the Vice-President for Academic Affairs and by the Registrar in his semester schedule of classes.

To assist the student in keeping a record of his progress towards graduation, this check list has been prepared. Transfer students may obtain a statement of equivalencies from the office of the Vice-President for Academic Affairs. In completing this check list, it is important for the student to remember that the cumulative index is not an average of semester indices. Rather, it is computed by dividing the total number of hours taken into the total number of quality points earned. Each semester the student's grade report gives both the semester index and the cumulative index.

Core Requirements: (required of all students with the exception that students in an approved 3-2 program are excused from the science components, Core 5-6).

Core 1	6 sem. hrs.	_____	Core 2	6 sem. hrs.	_____
Core 3	6 sem. hrs.	_____	Core 4	6 sem. hrs.	_____
Core 5	3 sem. hrs.	_____	Core 6	3 sem. hrs.	_____
Core 7	3 sem. hrs.	_____	Core 8	3 sem. hrs.	_____
Core 9	6 sem. hrs.	_____	Core 10	3 sem. hrs.	_____

MAJOR SEQUENCE: required of all students. 36 sem. hrs. (Geology 32 hours)

Course No.	Hrs.	Course No.	Hrs.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

MINOR SEQUENCE: required of all students. 18 sem. hrs. (Students who complete an approved group major fulfill major and minor requirements by the group major.)

Course No.	Hrs.	Course No.	Hrs.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

ELECTIVES:

Course No.	Hrs.	Course No.	Hrs.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

ADDITIONAL CHECKPOINTS

- _____ 120 hours required for graduation. 124 hours required in all teacher training programs.
- _____ 2.00 cumulative index required for graduation.
- _____ 2.00 cumulative index required in major.
- _____ 48 hours maximum which may be counted towards graduation in any one department.
- _____ 8 semesters must be spent in residence with the exception that students with
- _____ a 3.00 index or higher may complete residence requirements in seven semesters.
- _____ the last thirty hours must always be taken in residence.



STUDENT LIFE

Attendance at Saint Joseph's is a privilege and not a right. The College assumes that men and women of college age have an adequate conception of the duties and responsibilities expected of them. It is understood that this privilege may be withdrawn from anyone who does not conform to the traditions and regulations of the College. Saint Joseph's, at the same time, accepts an obligation to both students and parents to provide advisory and supervisory agencies.

Upon entering the college community, each student is furnished with a Student Handbook in which the specific rules of discipline and other regulations are contained. These policies are official statements from appropriate faculty, administration and student committees. Ignorance of these statements will, in no case, be accepted. All college policies apply to the student immediately upon his enrollment.

Every effort is made to encourage the student toward self-government in accordance with the ideas of obedience, honesty, courtesy and charity. When, however, a student manifests an inability or unwillingness to cooperate with the College in maintaining its regulations and policies, he subjects himself to disciplinary action. Matters of discipline are handled by the Personnel Dean and the College Conduct Board. The jurisdiction of the Board includes cases of dishonesty, intoxication, immoral and improper conduct, serious violation of campus regulations, or behavior prejudicial to the welfare of the student or the best interests of the college. The penalties imposed by the College Conduct Board may be probation, suspension, dismissal, or other action it may deem advisable.

In matters pertaining to social life, discipline, curriculum and scholarship, all students come under the counsel and supervision of the Vice-President for Academic Affairs and the Personnel Dean, according to the respective jurisdiction of each office. Matters of health are the concern of the College Physician. Administrative officers, assisted by student-faculty committees, make it their purpose to become familiar with student problems and to secure the observance of adopted policies and faculty regulations.

STUDENT ASSOCIATION

All full-time students are members of the Association and are governed by its constitution and By-Laws. Its elected officers plus the four class presidents, the campus-organizational senator, and the elected hall senators comprise the Student Senate. This group combined with its committees provides a channel of communication among students on the one hand and with faculty and administrators on the other. This Student Senate is the acting authority for the Association in its normal campus functioning — legislating, nominating, appointing, and directing.

PERSONNEL SERVICES

ALUMNI ASSOCIATION

Organized June 17, 1896, after the charter class of 1891 was graduated, the *Alumni Association* of Saint Joseph's College was established . . . "to cherish and strengthen the love of the graduates of Saint Joseph's College for their Alma Mater; to keep graduates of the different classes in communication with the college and with each other; and to bring about an acquaintance and friendship among the graduates of the different years that they may assist each other in attaining these ends." Membership is open to any graduate or former student who leaves in good standing. There are no dues. The college publishes an alumni newspaper which is mailed to all members four times a year without charge. Alumni are invited to return to the campus each year for the annual homecoming weekend held during football season. Chapters of the association are established in cities throughout the country. The association assists the college in: fund raising; student recruitment; publicizing the college in local communities; and placement of graduates.

BANK

For the convenience of students, the College maintains a student deposit account in the Business office where students may deposit their savings. Students may also take out short-term loans from the College.

BOOKSTORE

The College Bookstore, located in Halleck Center, carries textbooks, stationery items, clothing, gifts, greeting cards, cosmetics and other supplies.

COUNSELING

The Director of Academic Guidance assigns to each freshman a member of the faculty to serve as an advisor in educational, vocational, and personal matters. Students above the freshman level are permitted to select counselors from a list prepared by the Director of Guidance. Each faculty counselor has access to grades, test results, health records and other pertinent information concerning his counselees.

HEALTH SERVICE

All students admitted to Saint Joseph's for the first time are required to take a health examination. The history page is to be filled out by the student, and the medical examination blank by a physician. This report is to be received in the Student Health Center prior to registration. Students who do not have this completed form on file at the Health Center are not eligible for routine services rendered by the nurses or the college physician.

The College physician has regular hours on campus; at other times a nurse is on duty. Major accident cases or illness of a serious nature are referred to the hospital or, when possible, to the student's own physician. The services of a clinical psychologist are also available.

Information concerning a voluntary accident and sickness insurance may be obtained at the Health Center.

LAUNDRY SERVICE

A private agency operates a commercial laundry on the campus and will handle campus laundry at a special rate. This agency also operates a laundromat where the student may use automatic washers and dryers.

MAIL, TELEGRAMS, BAGGAGE

Saint Joseph's College has its own post office and zip code. All mail should be addressed to Saint Joseph's College, Rensselaer, Indiana 47978. All telegrams, express and baggage should also be addressed to Saint Joseph's College, Rensselaer, Indiana 47978.

MILITARY SERVICE

Selective Service provides qualified students with various opportunities for deferment. The Office of the Registrar makes special efforts to acquaint students with these opportunities.

While Saint Joseph's does not offer R.O.T.C. programs, students are eligible to enlist in the United States Marine Corps, Platoon Leaders Class. This program carries a draft deferment until graduation and leading to a commission and active duty in the Marine Corps. Representatives from other branches of the armed forces visit the campus to acquaint students with the opportunities for specialized service after graduation.

ORIENTATION PROGRAM

The College conducts an orientation program for all new students. Faculty members serve as counselors and assist new students in planning their programs for the first semester.

PLACEMENT PROGRAM

The Saint Joseph's College Placement Bureau is operated by an experienced director, who advises and assists students seeking employment after graduation. It is the responsibility of the bureau to develop and maintain communication channels among students, alumni, faculty, administrators, industry and government so that their respective needs and interests can be properly programmed into the College's curriculum.

PERSONAL PROPERTY

The College is not responsible for loss of, or damage to, personal property of the student from any cause. For your information, 'Homeowner's' insurance policies generally cover personal property losses of dependents at college. Parents are urged to have an "extended coverage rider" on their personal property insurance policy to protect themselves in the event of loss. The college does not furnish this kind of insurance to students.

RECREATION AND ATHLETICS

In its athletic program, Saint Joseph's College is governed by the policies of the North Central Association of Colleges and Secondary Schools, the National Collegiate Athletic Association and by the rules of the Indiana Collegiate Conference. The Saint Joseph's College PUMAS participate in a complete program of intercollegiate football, basketball, golf, wrestling, and baseball.

In addition to the intercollegiate program, the College offers a well-developed program of intramural activities. All students participating in intramural programs are urged to get proper insurance coverage. It is understood that the College will not be responsible for injuries incurred in intramural games.

RELIGIOUS SERVICES

The forming of a true Christian character in the student is the highest aim in education. All Catholic students are urged to make the annual retreat and to attend daily mass and benediction. Opportunity for confession is available daily. The program of religious exercises is arranged by the Chaplain, who is likewise available for consultation with any student.

TELEPHONE

Saint Joseph's College switchboard telephone number is (area code 219)-866-7111. The College switchboard is open from 8 a.m. until 11 p.m. each day during the school year. During these hours incoming calls can be placed through the switchboard to telephones on each floor of campus dormitories. When calling long-distance, parents or friends are advised to call person-to-person to insure that they are connected with the proper party. When the College switchboard is closed, callers should dial direct to the pay telephone in each campus hall. Pay phones in each dorm floor are as follows:

Aquinas Hall		Justin Hall West-Wing	
second floor	866-7968	first floor.....	866-7997
Bennett Hall		second floor.....	866-7998
first floor	866-7943	third floor	866-7995
Drexel Hall		Merlini Hall	
first floor	866-7979	second floor.....	866-7975
second floor	866-7953	Noll Hall	
third floor	866-7978	first floor.....	866-7959
Gallagher Hall.....	866-7984	second floor.....	866-7913
second floor	866-7947	Seifert Hall	
Halas Hall		East Wing.....	866-7956
second floor	866-7948	West Wing.....	866-7960
Justin Hall Lounge.....	866-7974		
Justin Hall East-Wing			
first floor.....	866-7993		
second floor.....	866-7902		
third floor	866-7901		

TESTING PROGRAM

Students may take tests in various fields, the results of which are used chiefly to give the faculty counselor information needed in planning the program of his counselees.



Department of Accounting — Finance

THE ACCOUNTING MAJOR provides the fundamental courses which are to prepare the student for entrance into the profession of accountancy; including public and private accounting practice or government service. Upon completion of this program of study, the student becomes eligible for the bachelor's degree in accounting, and he may secure through experience and state examination the status of certified public accountant.

In the field of public accounting there are opportunities in municipal and private auditing, system design and installation, cost and tax work. Federal and state governments provide opportunities for accountants in a wide variety of activities, including income tax and other taxation, farm administration, banking, interstate commerce, and the like. In private accounting practice, thoroughly trained accountants have opportunities for advancement into executive, financial and auditing or cost accounting positions.

THE FINANCE MAJOR provides academic training in financial analysis and management. Courses offered give the student a general foundation in the acquisition and control of the finances of the national and multinational corporation. The Finance major is designed for securing positions in institutions such as banks and investment firms, insurance companies, commercial and industrial firms, and the financial regulatory agencies of the federal and state governments.

The catalog requirement that "not more than 48 hours in a single department will be counted toward the minimum total for graduation" is interpreted to apply to each of the two major sequences in the Department of Accounting and Finance (i.e. 48 hours in Accounting and 48 hours in Finance). In recognition of the two distinct majors (Accounting and Finance), students are permitted to major-minor, group major or double major in Accounting and Finance.

Departmental Requirements: Accounting

1. Accounting 21-22 and Economics 21-22 are *prerequisites* for all accounting courses numbered 30 and above.

2. The requirement for a *major* sequence in accounting is thirty-six hours, including the following: Accounting 21-22, 31-32, 33, 35-36, 47 and 45-46. Six additional hours in accounting may be elected from among other courses. Economics 38 (statistics) is also required.

3. The requirement for a *minor* sequence in accounting is eighteen hours including Accounting 21-22, 31-32, 33, and three elective hours.

4. A group major in accounting-finance requires fifty-four hours composed of the following: Accounting 21-22, 31-32, 33, 35-36, 45 and 47. Finance 21, 30, 33, 36, 40, 48 and 3 hours elected from 43, 44, or 50. Six additional hours in Accounting and/or Finance to be determined in consultation with the student's major professor.

5. A *group major* in accounting computer science requires fifty-four hours composed of the following: Accounting 21-22, 31-32, 33, 35-36, 45, and 47. Computer Science 10, 22, 31, 33, 34, 52, and 53. Six additional hours in Accounting and/or Finance to be determined in consultation with the students major professor.

Suggested Program

1. In the freshman year, students majoring in accounting take: Core 1-2, Finance 21; Accounting 21-22, Economics 21-22. The electives recommended in the freshman year are Business 21, and Math 8.

2. Approved sequence of courses for accounting majors: Freshman, Accounting 21-22; Sophomore, Accounting 23-24, 31-32; Junior, Accounting 35-36, 33 (34); Senior, Accounting 43, 45-46, 47.

3. Students wishing to obtain two degrees in accounting and finance, should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses are for the second. The policies governing a second bachelor's degree are found under "Graduation Requirements" in this catalog.

Departmental Requirements: Finance

1. Finance 21, Business Administration 22, Economics 21-22 and Accounting 21-22 are prerequisites for all courses numbered 30 and above. Business Administration 35, and Economics 35 should normally be taken by no later than the sophomore year, and Business Administration 38 by no later than the junior year.

2. The requirement for a *major* sequence in finance is thirty-six hours composed of the following: Finance 21, 30, 33, 34, 36, 40, 43, 44, 48, 50, Business Administration 35, 38, and Economics 35.

3. The requirement for a *minor* sequence in finance is eighteen hours composed of the following: Finance 30, 33, 36, 40, 43, and 48.

4. A *group-major* in finance accounting requires fifty-four hours composed of the following: Finance 21, 30, 33, 34, 36, 40, 43, 44, and 48 or 50, Accounting 21-22, 31-32, 33, 35-36, and 45, three additional hours in accounting and/or finance to be determined in consultation with the major professor.

5. A *group-major* in finance-computer science requires fifty-four hours composed of the following: Finance 21, 30, 33, 34, 36, 40, 43, 44, 48, 50, Computer Science 10, 22, 31, 33, 34, and 53, and Business Administration 38. Three additional hours in accounting and/or finance to be determined in consultation with the major professor.

Suggested Program

1. Students in the freshman year in finance will take: Core 1-2; Finance 21; Business Ad. 22 Accounting 21-22, Economics 21-22. Math 8 is a recommended elective.

2. Students in the sophomore year will take Core 3-4. Finance 30, 33, and 34, Economics 35 and Business Ad. 35. Recommended electives for the sophomore, junior and senior years are available in mimeograph form from your counselor.

3. Students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

4. Non-majors interested in taking finance courses should consult a faculty member within the department.

Teacher Education Requirements

For those accounting or finance majors who wish to teach in secondary schools, an area major in social studies is available. The following courses are required: Core, 45 semester hours; professional education block; 18 semester hours; 6 hours American history; 3 hours world history; 3 hours political science; 3 hours sociology; 9 hours geography (Geol. 11, 24, 26); 3 hours statistics; 6 hours principles of economics; and 9 additional hours of history or economics.

COURSES IN ACCOUNTING

21-22. Principles of Accounting

6 hours

A fundamental course in accounting. The course is presented so that the student is properly prepared in the theory and techniques of accounting that are necessary for the advanced course. Emphasis is placed on the solution of accounting problems.

23-24. Business Law

6 hours

This course is designed to acquaint the student with those phases of law most frequently met in business. The selected areas of study include contracts, negotiable

instruments, agency, sales, partnerships, corporations, property and torts.

Prerequisite for Accounting 24: Accounting 23.

31-32. Intermediate Accounting 6 hours

An investigation into the form and content of financial statements with emphasis on accounting for assets, liabilities and corporate capital accounts. Techniques for analyzing and interpreting financial statements are also considered. Consideration is also given to the funds statement and cash-flow statement.

33. Cost Accounting 3 hours

A study of the basic terminology, concepts, and techniques of cost determination. Job order, process, and standard cost systems are explored through the medium of problems.

34. Advanced Cost Accounting 3 hours

This course is designed to familiarize the student with analytical interpretation of cost data. The areas of budgetary controls, direct costing, cost-volume relationships, and variance analysis are given special consideration.

Prerequisite: Accounting 33.

35-36. Advanced Accounting 6 hours

Advanced partnership accounting problems and special transactions resulting from consignments, installment sales, and home office/branch accounting are considered. Special emphasis is placed on the preparation of consolidated statements of financial condition and income. Consideration is also given to statements required of fiduciaries and to governmental accounting problems.

43. Pro-Seminar In Accounting Theory 3 hours

An introduction, by means of directed reading and individual projects, to the methods of accounting research and the theory of accounts.

45-46. Income Tax Accounting 6 hours

This course is designed to familiarize the student with the federal income tax laws by means of lectures and practical problems. It is devoted to an intensive study of the income tax laws as they apply to individuals, partnerships, and corporations.

47. Auditing 3 hours

A course designed for those intending to enter the profession of public or private accounting. The responsibilities of auditors and the regulations applying to the profession are studied, with special reference to the rules of professional conduct for members of the American Institute of Certified Public Accountants. Various types of audits and their purposes are analyzed. Certificates are studied and prepared.

51. Honors Seminar In Accounting 3 hours

52. Application of Data Processing to Accounting and Business Records 3 hours

The course deals with fundamental concept involved in converting a hand written and/or mechanical system of business records to either punch card or tape type data processing equipment. The course also includes the conversion period, the expansion and up dating period, and the problems related to these normal steps in the complete development of a data processing system for business enterprises. (Computer Science 52.)

53. Internship 3 hours

To those students who qualify to participate in the Accounting Internship Program of the Accounting-Finance Department of Saint Joseph's College, 3 hours credit will be awarded for above average completion of the internship period with professional accounting firms. Achievement will be based upon the written report of the intern which

will have to be submitted to the department. The report shall cover his activities, the conducting of audit in professional firms, and/or other suitable topics as elected by his faculty advisor. The department shall work in conjunction with the supervisor of interns with each respective professional firm which agrees to cooperate and work jointly with the Accounting Department of Saint Joseph's College.

55. Independent Study

1-3 hours

COURSES IN FINANCE

21. Personal/Family Finance

3 hours

This course is designed to assist the young person or young family in making sound financial decisions relative to the principles and practices of: budgeting, installment purchasing, using saving institutions such as banks or saving and loan associations, the wise purchasing and financing of a home, purchasing life and automobile insurance, preparing a will, estate planning, and purchasing common stocks.

No background in Accounting or Finance is required, and the course is open to all students regardless of their major field of study.

30. Principles of Finance

3 hours

This course is a survey of the entire field of business finance, and its relationship to accounting, economics and law. Emphasis is placed upon the business corporation and those institutions, instruments, and procedures which it utilizes to finance its operations.

33. Corporation Finance I

3 hours

A study of the financial problems involved in organizing and managing a corporation. Includes the financial aspects of: risk vs. return; financial analysis; management of cash, accounts receivable, and inventory; management of fixed assets and capital budgeting; and cost of capital. Problem solving supplements lectures.

34. Corporation Finance II

3 hours

A continuation of Finance 33. Part II includes the financial aspects of: trade credit and commercial paper; short term, intermediate term, and long term financing; leasing; preferred and common stock; dividend policies; valuation; merger and consolidation; and failure and reorganization. Problem solving supplements lectures.

36. Investment Analysis

3 hours

This course is designed to familiarize the young person with techniques necessary to make sound financial decisions when contemplating the purchase of common stocks. Included are the treatment of investment objectives, investment institutions such as the organized stock exchanges and over the counter markets, sources of investment information, and the formation of appropriate investment policies for individuals and families. The traditional risk approach to investment analysis is used with the major semester project being an in depth security analysis.

40. Financial Analysis and Control

3 hours

A study of the character and importance of the respective items in financial statements with critical analysis and interpretation of statements of business enterprises. With the knowledge gained from the foregoing, estimating income and expense, profit-planning and control, measuring operating efficiency, and enforcing budgets are reviewed.

Prerequisite: Finance 33.

43. The American Financial System

3 hours

A critical study dealing with the institutional framework of the economy by which savings and credit are made available to business, consumers, and the government, together with an analysis of the impact of the various flows of funds on the total economy. Among the institutions covered are: federal financial institutions, commercial

banks, savings and loan associations, insurance companies, investment and pension funds, investment banking, and the money and capital markets.

44. International Finance 3 hours

This course encompasses the financial problems which arise in the conduct of foreign trade and other international transactions. The topics covered include: international payment systems, foreign exchange markets, exchange controls, variation of exchange rates, methods of financing imports and exports, balance-of-payments analysis, international financial institutions and capital markets, and problems of international liquidity.

48. Problems of Financial Management 3 hours

This course presents a series of comprehensive financial problems by which it is intended to perfect the student's ability to utilize the methods and techniques of financial analysis and management acquired in previous courses. The case method is used throughout the semester.

50. Seminar in Finance 3 hours

A general seminar which includes financial problems peculiar to business finance, investment management, and bank management. The content depends on current developments in finance. In general, financial problems are examined both from the viewpoint of business management and that of the economic system. The ethical — historical approach is utilized.

51. Honors Seminar 3 hours**55. Independent Study 1-3 hours**

Department of Art

The courses in this department are designed to provide training in the various arts, as well as an understanding and appreciation of artistic works. Certain courses are intended to equip the prospective teacher in the training of children in the arts. The minor in art consists of any 18 hours in art.

11-12. Basic Design Workshop 4 hours

This workshop stresses the elements of good design, including art for the home and classroom, as well as techniques. In the first semester emphasis is placed on the study of art materials, the use of basic design shapes, the study of basic color theory, and the study of line mass relationships. The second semester provides the student with an opportunity for the practical application of the principles presented in the first semester and for experimentation in all media.

27. Art History and Appreciation 2 hours

A course designed to furnish the student with a background for an understanding of the arts and to broaden his judgment in regard to what constitutes beauty and good taste. A brief survey of painting, sculpture, architecture, and the minor arts of all periods.

31-32. General Drawing I and II 4 hours

The first semester emphasizes free hand drawing of live subjects and still-life subjects. The course is planned to develop an understanding and awareness of form, light and shadow, line, pictorial composition and color. The second semester deals with extensive experimentation with a variety of media for a more versatile expression. Students work in the medium of their choice, such as pencil, pen and ink, charcoal, crayon, chalk, and water color.

41-42. Painting I and II**4 hours**

The first semester deals with painting live subjects and still-life set-ups; understanding of oil paint as an expressive medium; and working with color, composition, various techniques and experiments. The second semester takes up figure painting and the more advanced techniques of expression in oil painting, use of water colors, and casein.

43-44. Sculpture Workshop I and II**4 hours**

The first semester offers the student an opportunity to work in plaster and clay. Special emphasis is placed on creative form and good design. In the second semester the student has an opportunity to carve in wood and work with plastics. Extra materials fee (in each semester): \$10.00.

47-48. Art Skills and Crafts**4 hours**

The fundamentals of drawing, pattern, composition, essentials of lettering and posters are intertwined with the materials, processes and products of art. The student is shown how to organize this knowledge for effective teaching at the elementary level.

Department of Biology

The departmental courses in biology are intended to help the student acquire: 1. A knowledge of the basic principles of the biological sciences and some skill in the application of the scientific method to biological problems. 2. The necessary background for work in graduate or professional schools of medicine, dentistry, or biological science. 3. The biological background for certain professional careers such as teaching biology in secondary schools or working with biological surveys and in museum laboratories.

Several assistantships are offered annually to qualified biology or biology-chemistry majors. Freshmen, sophomores, and juniors are welcome to apply during the last month of their respective school years.

Interested and qualified majors in biology are encouraged to implement their training in zoology and/or botany by field ecological work, marine or fresh water, in the taxonomic, embryological, and physiological areas, in any approved biological stations, e.g., in Michigan, Massachusetts (Woods Hole), Carolinas, Maine, Oregon, etc. With the previous consent of the department, credits received will be accepted here.

Laboratory fees: Biology 11, 12 and 22, each \$7.50. Biology 25, 26, 32, 33, 39, 42, 43, 44, 46, 51, and 55, each \$10.00.

MAJOR PROGRAM IN MEDICAL TECHNOLOGY

This program requires completion of three years of on-campus courses and 9-12 months in-hospital training in a program approved by the American Medical Association and the American Society of Clinical Pathologists. The minimal requirements for admission to the in-hospital portion are set by the AMA and the ASCP. These are:

Chemistry: 16 hours; must include Chemistry 11/12 or equivalent (8 hours). Remaining hours may be any laboratory course for which Chemistry 11/12 are prerequisites. Suggested courses: Chem 31, 32, 33.

Biology: 16 hours; must include Biology 11/12 or equivalent (8 hours). Remaining hours may be any laboratory course for which Biology 11/12 are prerequisites. Suggested courses: Bio 25, 26, 42, 43, 46.

Mathematics: 3 hours; suggested courses: Math 12, 15.

Physics: Not required but strongly recommended.

In addition, for graduation the following requirements must be met: Core: 1, 2, 3, 4, 7, 8, 9 and 10.

Major: 36 hours, includes credit for in-hospital training.

Minor: 18 hours, includes credit for in-hospital training.

Hours: 120, includes credit for in-hospital training.

Suggested schedule: Freshman year Biology 11/12, Chemistry 11/12, Core 1/2, Math and elective (total 34 hours). Sophomore year Biology 25/26, Chemistry electives, Core 3/4 (total 28 hours). Junior year Biology 35/36, Biology electives, Core 7/8, 9/10, elective (total 28 hours).

In the early part of the Junior year students are to submit a transcript to the Registry of Medical Technologists for evaluation and should begin to make application to hospitals for in-hospital training. A list of approved, affiliated hospitals is available in the office of the chairman of biology.

Departmental Requirements:

1. Biology 11-12 are prerequisites for all other courses in biology. (Note: for Biology 22, prerequisite: Biology 11 only).

2. The requirement for a MAJOR sequence in biology is 36 hours in biology, including Biology 25-26 and 35-36. Chemistry 11-12, 31-32, and Physics 21-22 are also required. The requirement for a MINOR sequence in Biology is any 18 hours of biology.

3. A group-major in biology-chemistry is offered for pre-medical students. The requirement is 54 hours of biology and chemistry. Biology 11, 12, 25, 26, 35, and 36; and Chemistry 11, 12, 31, 32, 33, 37, 41, and 42 are required. The additional 10 hours may be chosen from the offerings in either department.

Suggested Program:

1. Biology Major Freshman: Core 1-2; Chem 11-12; Bio 11-12; Math 15; CS 10. Sophomore: Core 3-4; Chem 31-32; Bio 25-26; CS Statistics or Electives. Junior: Core 5-6; Core 7-8; Phys 21-22; Bio (elective). Senior: Core 9-10; Bio 35-36; Bio (elective); Bio 65 (Marine Biology Trip).

2. Biology/Chemistry Major Freshman: Core 1-2; Chem 11-12; Bio 11-12; CS 10S or Statistics. Sophomore: Core 3-4; Chem 31-32; Bio 25-26; Math 15; Elective. Junior: Core 5-6; Core 7-8; Phys 21-22; Bio (elective). Senior: Core 9-10; Bio 35-36; Chem 41-42; Bio 65 (Marine Biology Trip); Bio (elective); Chem 37; Chem 33.

Biology/Chemistry majors are to observe carefully the required courses in the catalog. Some of these courses are offered only every other year. The student is, however, held responsible for meeting these requirements. Any student who has not had a high school algebra course should make arrangements to have a remedial mathematics course before Math 15.

3. Medical Technology Major Freshman: Core 1-2; Bio 11-12; Chem 11-12; Math 15; Elective. Sophomore: Core 3-4; Bio 25-26; Phys 21-22; Electives. Junior: Core 7-8; Core 9-10; Bio 37; Bio 43; Chem 31-32. Senior: Off-campus training in medical technology at hospital, usually 12 months.

TEACHER EDUCATION REQUIREMENTS

TEACHING MAJOR IN BIOLOGY: Core, 45 sem. hrs.; professional education block, 18 sem. hrs.; the biology major with these specific courses: genetics; conservation of natural resources; ecology; microbiology or animal histology; human anatomy and physiology or general physiology.

TEACHING MINOR IN BIOLOGY: 8 hours general biology; human anatomy and physiology or general physiology; conservation of natural resources; basic chemistry; electives in biology to total 24 semester hours including a maximum of 4 credits in chemistry.

COURSES IN BIOLOGY**11-12. Introduction to Experimental Biology 8 hours**

An introductory discussion of the concepts and methods of biology with stress on laboratory investigations to emphasize biology as a science of enquiry. The open-end type of laboratory allows the student to develop areas of interest to his fullest capacity. This course is prerequisite to all other course offerings in Biology. Two lectures, one discussion period and one three-hour laboratory period each week. (Open to Biology majors in the freshman year, to non-majors in the sophomore year.) Offered every year.

22. Human Anatomy and Physiology 4 hours

An introductory course intended primarily for physical education majors. The course is recommended for students preparing to teach biology or health in high school. Three lectures and one two-hour laboratory period each week. Offered every year, 2nd semester.

Prerequisites: Biology 11 or Biology 12.

25. Comparative Vertebrate Anatomy 4 hours

The study of type forms of different classes of vertebrates, from the viewpoint of the morphological and physiological relationships of the various organs and systems. Two lectures and two-hour laboratory periods each week. Offered every year.

26. Embryology 4 hours

Laboratory study of the developmental anatomy of frog and chick embryos. Lecture emphasis is placed on analysis of the processes of development and a study of elementary experimental embryology. Two lectures and two two-hour laboratory periods each week. Offered every year.

30. Introduction to Scientific Latin and Greek 1 hour

A study of the elements of the Greek and Latin languages, together with their roots and the corresponding English derivations commonly used in biological, chemical, and medical sciences. Open to sophomores, juniors, and seniors. One 90 minute lecture each week.

31. History of Biology 2 hours

A survey of the development of the science of biology. Particular attention is given to the interplay of philosophy and science and to the development of the conceptual framework of biology. Required readings and papers. Discussions and conferences with staff and with related departments.

32. Conservation of Natural Resources 3 hours

A study of the principles and methods of conservation of natural resources (soils, water, atmosphere, biotic, mineral, and human powers) with emphasis on biological conservation as practiced in the United States. Three lectures with field work each week. Offered 2nd semester, 1973-74.

33. Ecology 4 hours

The study of organisms in relation to their environments, namely, physical: light, temperature and water; biogeochemical: chemical cycles, energy cycles and geological cycles; biotic: food chains and competition. Three lectures with field work each week. Offered on two-year cycle.

35-36. Seminar in Biology 2 hours

Intensive discussion of selected topics in biology led by senior members of A.I.B.S. with guidance from the staff. REQUIRED FOR GRADUATION OF ALL SENIORS MAJORING IN BIOLOGY OR BIOLOGY-CHEMISTRY GROUP SEQUENCE. Offered every year.

37. Genetics 3 hours

A study of the general principles of heredity and the operation of hereditary factors in the origin and development of species and of individual traits.

39. Methodology and Instrumentation 3 hours

A resume of the more common, important lab methods and/or techniques and lab instrumentation which a student may not have encountered in his other courses. Methodology includes e.g., techniques of collection and preservation of animal and plant specimens, tissue culture, pure culture, other more recent lab techniques, together with current literature reviews. Instrumentation embraces demonstration and student uses of more sophisticated lab equipment, e.g., respirometry, Tecktronix, physiography, phase and fluorescence microscopy, spectrometry, electrophoresis and chromatography. This course (with appropriate modifications) satisfies the biology teacher requirement. One lecture and two two-hour lab periods each week.

42. General Physiology 4 hours

The physiological process at the organismic level are analyzed and correlated with the simpler manifestations at the cell level. Among the topics discussed are the structure and composition of cells, reactions of organisms to the environment, adjustment and maintenance of the internal environment, energy sources and utilization of energy for movement, production of electricity. Two lectures and two two-hour laboratory periods each week.

Prerequisites: Physics 22 and Chemistry 32.

43-44. Microbiology 8 hours

A study of bacterial structure, life activities, and classification; also introductory studies in immunology, mycology, parasitology, and virology. Laboratory methods of culture, isolation, and identification of various saprophytic and pathogenic organisms, particularly enteric forms; some serological techniques; water, milk, soil and food bacteriology. Two lectures and two two-hour laboratory periods each week.

Prerequisite: Chemistry 32.

46. Animal Histology and Microtechnique 4 hours

A microscope study of prepared normal vertebrate tissues and organs, with special reference to human tissues. Some laboratory is also devoted to preparation of small organisms and of animal and plant tissues. Two lectures and two two-hour laboratory periods each week.

51. Honors Seminar in Biology 3 hours

55. Independent Study 1-3 hours

65. Marine Field Trip 4 hours

Offered during the spring session each year. Three weeks at a marine biology field station during which taxonomic collections and collecting techniques are the major work. May be elected more than once.

Strongly Suggested for all Biology and Biology-Chemistry Majors.

Department of Business Administration

The courses in business administration have been designed to provide the knowledge required for positions in business. Their aim is to combine specific preparation with a background in general education, which with experience, should enable one to assume positions of higher responsibility more rapidly and competently.

Departmental Requirements:

1. Business Administration 21, 22, Economics 21-22, and Accounting 21-22 are *prerequisites* for all courses.
2. The requirements for a *major* in business administration is 36 hours also including Bus. Ad. 38 (Statistics).
3. The requirements for a *minor* sequence in business administration are 18 hours including Bus. Ad. 38.
4. A group-major in business administration-data processing requires 33 hours of business administration including Bus. Ad. 31, 35, 48, 41, 42, 49, and 50. In addition, 21 hours of computer science are required including CS 31, 33, 34, 52, and 53.

Suggested Program:

1. In their freshman year, students majoring in business administration will take Core 1-2; Accounting 21-22; Economics 21-22; Business 21-22.
2. The major in business administration should consider accounting-finance for his minor area.
3. Students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

Teacher Education Requirements

For those business administration majors who wish to teach in secondary schools, an area major in social studies is available. The following courses are required: Core, 45 semester hours; professional education block, 18 semester hours; 6 hours American history; 3 hours world history; 3 hours political science; 3 hours sociology; 9 hours geography (Geol. 11, 24, 26); 3 hours statistics; 6 hours principles of economics; and 9 additional hours of history or economics.

COURSES IN BUSINESS ADMINISTRATION

8. Mathematics For Business Students 3 hours

This course is intended as a preparation for the course in elementary statistics. Topics include: set theory, symbolic logic, relations and functions, sequences and series, combinational analysis, and an introduction to the basic concepts of probability and discrete random variables.

21. Industrial Organization 3 hours

This course deals with the basic concepts of production management including plant location, allocation of resources, organization of labor. Attention is given to elements of organizational theory.

22. Principles of Marketing 3 hours

A study of the structure and process of marketing with emphasis upon the manner in which marketing distributes economic resources and stimulates demand. Consumer, industrial and government markets are analyzed and the resources of the economy are reviewed from the standpoint of the marketing problems they present. The organization of marketing is described with special attention devoted to channels of distrib-

ution and the various types of retailers and wholesalers. Descriptive cases and commodity analyses are used throughout the course.

31. Production Management**3 hours**

The purpose of this course is to present a framework of principles, methods, procedures, and techniques of factory management, and to develop the student's ability to make sound managerial decisions, especially at the operational level. By means of selected case problems, emphasis will be placed upon the following topics: research, development, and engineering; manufacturing processes; the management of physical property; motion and time study; production planning and control; operations research; quality control, and cost control.

32. Personnel Management**3 hours**

An analysis of the personnel function in the management of business enterprises. Problems in selection, placement, compensation, training, and maintenance of work teams in different types of business enterprise will be considered. Emphasis will be placed on both the functions of the personnel manager and the individual line managers and supervisors.

34. Sales Management**3 hours**

A study of the managerial functions of the sales manager, with particular reference to problems involved in investigations of marketing, planning and the sales effort, management of sales and service personnel, and control of the sales operations. The preliminary part of the course is devoted to a study of the principles and techniques of personal selling. This involves examination of the various aspects of selling such as: development of psychological rapport with prospects, organization of prospecting activities, analysis of public relations problems.

35. Principles of Management**3 hours**

The purpose of this course is to present a carefully organized system of concepts by which the basic meaning and the universal principles of management can be grasped. This course is limited to a treatment of that body of fundamental principles which underlies all management regardless of type or size of business. A study of the structure of industry in the U.S., the objectives and means of a business enterprise, the functions of business, the environment of a business, the purpose and methods of management, administrative decision-making and functions of management.

38. Elementary Statistics**3 hours**

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis on the interpretation and use of statistical analysis in business and economic problems.

39. Retailing Organization and Operation**3 hours**

This is a basic survey course which includes an analysis of the opportunities, development and present status of the retailing industry. Course content includes: Methods of store management, principles of store location, organization for control of merchandise, devices for improvement of store services, control of store expenditures, and coordination of credit, sales and other marketing activities.

41. Managerial Decision-Making**3 hours**

A course designed to present an organized and integrated approach to the managerial decision-making process. Emphasis will be placed on the following topics: the nature of the decision-making process; the stages of decision-making; the use of premises in decision-making; decision and implication; validating forms for decision-

making; planning and decision-making; organizing for effective decision-making; controlling and decision-making; operations research; application of quantitative methods to the solution of business problems; and the implementation of decisions. Problems will be presented to give students practice and guidance in arriving at valid decisions.

42. Seminar in Administrative Policy 3 hours

This course is designed to give students practice in policymaking thereby enhancing their ability to identify, analyze, interpret and evaluate business policies, especially those of large corporations. Through the study of actual business situations, the student will learn to diagnose a company's policy decisions. Cases are selected from a variety of industries to emphasize the universality of management problems and to give the student a facility for solving problems wherever they may develop. An attempt will be made to focus previously gained knowledge of accounting, finance, management, marketing and economics upon such matters as organizational, administrative, procurement, production, sales, labor, financial and expansion policies.

45. Advertising: Principles and Procedures 3 hours

A study of the role of advertising in the marketing structure and as a marketing tool of the individual firm. Consideration is given to the character of demand as seen by the individual firm and the opportunities for modifying it through the use of advertising. Content of the course includes an analysis of buying motives, social forces involved in consumer behavior, measurement of the market potential determination of proper advertising budgets, media allocations, and the devices used to measure the effectiveness of advertising campaigns.

49. Marketing Research 3 hours

The use of scientific method by business in gathering and utilizing marketing data in the efficient selling of merchandise. An analysis of advertising selling and price and product problems that market research may assist in solving, research methods and techniques; analysis and interpretation of typical marketing data; questionnaire building and methods of sampling; a survey of problems that a division of marketing is likely to face; analysis of markets through company records, published sources and original investigation.

50. Marketing Management 3 hours

A study of the marketing problems of the firm approached from a management point of view. Emphasis is placed on the development of the student's ability to analyze marketing situations, identify problems, determine solutions, implement corrective action, and plan strategy. The student learns how the marketing management functions of merchandising, channel selection, determination of brand policy and price policy, sales promotion, advertising and personal selling integrate to produce an effective marketing program.

51. Honors Seminar in Business Administration 3 hours

55. Independent Study 1-3 hours

Department of Chemistry

The courses in the Department of Chemistry are designed to help the student: 1. To understand and appreciate, by means of basic courses, the principles of chemistry. 2. By means of carefully supervised laboratory work and by an introduction to the literature of the field: a) To observe carefully and accurately natural phenomena. b) to realize and appreciate the problem of the application of the theoretical principles to actual experimental work. 3. By a study of the literature and by means of a minor research problem to initiate the development of the skills and attitudes requisite for research in the field of chemistry. 4. To meet the basic requirements in chemistry for entrance into graduate school, medical school, or industrial chemistry.

Unless otherwise noted, laboratory periods are three-hour periods. Laboratory fees: Chemistry 11, 12, 45, and 46, each \$7.50. Chemistry 31, 32, 33, 34, 37, 39, and 51, each \$10.00; Chemistry 48, \$5.00.

Departmental Requirements:

1. Chemistry 11-12 are *prerequisites* for all courses in chemistry. It is further necessary, for the student majoring in chemistry, to show credit in Mathematics 15, 25, 26.

2. The requirement for a *major* sequence in chemistry is 36 hours, including Chem 31-32, 33, 34, 45-46, 48 or 51; Physics 21-22, and four semesters of college German or the equivalent. The requirement for a *minor* sequence in chemistry is 18 hours, including Chemistry 33.

3. The GROUP MAJOR in biology-chemistry consists of Biology 11, 12, 35, 36, 37, 40; Chemistry 11, 12, 31, 32, 33, 37, 41, 42 and 10 additional hours chosen from the Biology and Chemistry offerings.

Suggested Program:

1. Freshman students majoring in Chemistry take: Core 1-2; Chemistry 11-12; Math 15.

2. Requirements to be taken in the sophomore year are Chemistry 31-32, Math 26, and German 1-2.

3. Students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

4. Special requirements to be fulfilled in the junior and senior years are: German 21, 26 (or equivalent) and Physics 21-22.

Teacher Education Requirements:

Teaching major in chemistry: Core, 45 semester hours; professional education block, 18 semester hours; the major in chemistry.

Teaching minor in chemistry: 24 hours in chemistry.

COURSES IN CHEMISTRY

Chemistry 1

3 hours

This course in theoretical as well as practical chemistry is designed for students intending to teach in elementary school. It does not satisfy the chemistry requirement for a major or minor in science. Two lectures and one two-hour laboratory period per week.

11-12. General Chemistry and Elementary Analysis

8 hours

The introductory chemistry course stresses the general principles of chemical science, together with an exploration into the inorganic chemistry of the elements. The laboratory work includes a qualitative analysis for elements in the first semester and

an introduction to quantitative analysis in the second semester. Two formal lectures, one quiz section, and three hours of laboratory work per week.

31-32. Organic Chemistry**8 hours**

A study of the structure, reactions, and properties of the aliphatic and aromatic carbon compounds. The applications of organic chemistry in industry and medicine are emphasized. In the laboratory the important methods and techniques are stressed. The material presented in the lectures is illustrated by the preparation and identification of typical compounds. Three lectures and one laboratory period each week.

Prerequisites: Chemistry 11-12.

33. Quantitative Analysis**4 hours**

A study of the theoretical principles upon which analytical methods are based. Included is a survey of the field of analytical chemistry and a detailed investigation of the standard methods. Volumetric and gravimetric experiments are carried out in the laboratory. Three lectures and one laboratory period per week.

Prerequisites: Chemistry 11-12.

34. Instrumental Methods of Analysis**4 hours**

A study of the principles of chemistry underlying the use of instruments in analysis and a survey of the field. The laboratory work consists of analysis carried out with representative instruments. Three lectures and one laboratory period per week.

Prerequisites: Chemistry 33.

36. Elementary Physical Chemistry**3 hours**

A course intended primarily for students who lack the mathematical preparation for the more extensive course, Chemistry 45-46. The principles of physical chemistry are treated from a descriptive viewpoint with emphasis on solutions, colloids, and physical structure. This course may not be counted toward a major in chemistry. Three lectures per week.

Prerequisites: Chemistry 11-12 and 33, and Physics 21-22, or 24-25-26.

37. Biochemistry**4 hours**

A study of the physical and chemical properties of carbohydrates, fats, proteins, nucleic acids, and enzymes. The chemical nature and molecular interactions of enzymes, DNA and RNA are stressed. The laboratory is devoted to the qualitative and quantitative aspects of the above substances. Three lectures and one laboratory period per week.

Prerequisites: Chemistry 31-32.

39. Organic Analysis**3 hours**

A study of the characterization of organic compounds through elementary and spectroscopic analysis, functional-group reactions, and derivatives. Lectures are devoted to the chemistry of functional groups and the solving of problems. Use of spectroscopic methods will be stressed. Two lectures and laboratory period per week.

Prerequisites: Chemistry 31-32.

40. Advanced Organic Chemistry**3 hours**

A continuation of organic chemistry in which structures, properties, and reaction mechanisms of organic compounds are more thoroughly studied. Three lectures per week.

Prerequisites: Chemistry 31-32.

41-42. Seminar**2 hours**

A discussion course on selected topics related to the field of chemistry is conducted by the chemistry faculty. This course *is required of all seniors* in chemistry and biology-chemistry. While offered for credit only to seniors, it is recommended for juniors and suggested for sophomores and freshmen.

44. Advanced Inorganic Chemistry**3 hours**

A continuation in the area of inorganic chemistry. This course includes a study of the electron structure of the atom, nuclear structure and its effect on the electrons, molecular structure, and specific advanced areas such as photo-chemistry, astro chemistry, and radioactivity. Three lectures per week.

Prerequisites: Chemistry 11-12.

45-46. Physical Chemistry**8 hours**

A fundamental course based on the principles of physical chemistry. The role of energy in chemical reactions is treated both from the descriptive and the analytical viewpoints. Three lectures and one laboratory period each week.

Prerequisites: Chemistry 11-12 and 33, Mathematics 15, 25, 26 and Physics 21-22, or 25-26.

48. Research In Chemistry**2 hours**

Early in the first semester, topics for research problems are chosen. Throughout the year, library and laboratory research is pursued. Progress reports are made and discussed.

Prerequisites: A reading knowledge of German.

51. Honors Seminar In Chemistry**2 hours**

An alternate course for Chemistry 48, open to students who have made a B average in the chemistry courses of the junior year.

Prerequisites: A reading knowledge of German.

55. Independent Study**1-3 hours**

Department of Communications and Theatre Arts

The Department of Communications and Theatre Arts has as its aim the following goals: 1. to instill an understanding and appreciation of oral rhetoric and its function in a liberal education; 2. to develop the student's resources, ability, and facility for the spoken communication of thought and emotion; 3. to prepare students for graduate study in speech; 4. to foster an appreciation of theatre in our culture.

Departmental Requirements:

1. Speech 15 is a *prerequisite* for all speech courses.
2. The requirement for a *major* sequence in speech is 36 hours so distributed as to include 9 hours in general survey, 9 hours in public address and 6 hours in theatre. The requirement for a *minor* in speech is any 18 hours. The department urges those who intend solely to minor in speech to select courses designed to complement their major programs of study.
3. No language is required for those students who wish a Bachelor of Science in Communications and Theatre Arts. Complementary courses may be taken in English, sociology, psychology and political science at the recommendation of the department. 12 hours of foreign language are required for the Bachelor of Arts degree.

Suggested Program

1. Students planning to major in Communications and Theatre Arts will take: Core 1-2; Speech 15; Sociology 21; Political Science 21-22; Psychology 10.

Teacher Education Requirements

Teaching minor in speech: 3 hours from the discussion and debate area; 3 hours from the dramatics and oral interpretation area; 3 hours of radio; speech correction and electives to total 24 hours in speech.

15. Fundamentals of Oral Communication

3 hours

16. Physical Bases of Speech

2 hours

24. Theatre Laboratory

1 hour

Required of all communication majors.

25. Radio Laboratory

1 hour

30. Advanced Oral Communication

3 hours

31. Group Discussion

3 hours

32. Play Production

3 hours

33. Argumentation and Debate

3 hours

Required of all communication majors.

34. Oral Interpretation of Literature

3 hours

The development of the student's abilities in reading aloud through exercises in the analysis and communication of the logical content of the printed page. Special attention will be given to a study of literature, prose and poetry, as they affect the understanding and performance of the oral interpreter.

- 35. Oral Interpretation of the Modern Drama** **3 hours**
 A study of the forms and content of the modern drama (Ibsen to the present day) as they affect the understanding and performance of the oral interpreter.
- 38. Acting** **3 hours**
 A basic course for the beginning actor. Emphasis placed on body movement, use of the voice, stage directions, characterization, dramatization, emotional recall and vocal interpretation of the play script. The student will present scenes and short acts in class for critical purposes. Opportunity for participation in college productions.
- 39. Advanced Acting** **3 hours**
 Detailed study of the acting techniques employed in classical drama.
Prerequisite: CTA 38 or permission of the instructor.
- 40. Persuasion** **3 hours**
 Critical evaluation of the major principles and techniques of persuasion as they relate to public address and informal discussion.
- 43. Elements of Speech Improvement** **3 hours**
 Diagnosing simple speech defects and disorders, nasality, lisping, omissions, additions, substitutions, inversions. Theory of improving simple defects and disorders.
- 45. Basic Radio and Television Theory** **3 hours**
 Study of radio and television equipment and production. Opportunity is offered to work for credit on radio station WOWI and produce own shows for video tape recordings.
- 51. Honors Seminar** **3 hours**
- 55. Independent Study** **1-3 hours**

Department of Computer Science

Computer Science is concerned with the representation, storage, manipulation, retrieval and presentation of information. It deals with problems of designing the machines that perform these operations, plus implementing the means of communication between machines and between man and machine. The theoretical foundation of Computer Science overlaps other fields such as pure and applied mathematics, numerical analysis, philosophy, linguistics, psychology, social sciences, business administration and biology.

Laboratory fees: CS 10, 22, 24, 33, \$10.00 each.

Group-Majors

- Students wishing to earn a group-major in one of the areas listed below, must complete a 54 hour program.
1. Accounting-Computer Science: Accounting 21, 22, 31, 32, 33, 35, 36, 45, and 47. Computer Science 10, 22, 31, 33, 34, 52, and 53, six additional hours in accounting and/or finance to be determined in consultation with the major professor.
 2. Business Administration-Data Processing: This program requires 33 hours of business administration including business administration 31, 35, 48, 41, 42, 49, and 50. In addition, 21 hours of computer science are required including CS 31, 33, 34, 52, and 53.
 3. Finance-Computer Science: Finance 21, 30, 33, 36, 40, 43, 44, 48, and 50. Computer Science 10, 22, 31, 33, 34, 52, 53, three additional hours in accounting and/or finance to be determined in consultation with the major professor.

4. Mathematics-Computer Science: This program requires a minimum of 30 hours of mathematics including Math 32, 35, and 36. Math 37, 38 and 42 are recommended but not required. In addition, a minimum of 21 hours of computer science is required including CS 24, 31, 33, 34, 39 and 53; 3 hours of mathematics or computer science to be elected from the mathematics and computer science offerings.

COURSES IN COMPUTER SCIENCE

10. Introduction To Programming For Digital Computers 3 hours

Programming of digital computers in a problem-oriented language (FORTRAN). Problems will be selected from the areas of numerical and non-numerical applications. The course is intended to prepare the student to use the computer in the physical and non-physical sciences.

22. Introduction To Algorithmic Processing — Commercial 3 hours

Introduction to the intuitive notion of an algorithm; representation of algorithms in narrative form as flow charts and as computer programs; a general structure of computers; computer experience using a procedure-oriented language in programming algorithms such as those used in general data processing applications.

Prerequisite: CS 10.

24. Introduction To Algorithmic Processing — Scientific 3 hours

Introduction to the intuitive notion of an algorithm; representation of algorithms in narrative form as flow charts and as computer programs; a general structure of computers; computer experience using a procedure-oriented language in programming algorithms such as those used in elementary numerical calculations; a study of problem-oriented languages as linear programming and COGO.

Prerequisite: CS 10.

31. Logic And Finite Automata 3 hours

Examples of informal axiomatic theories and their interpretations, use, or propositional calculus. Discussion of Turing machines, Post systems, regular expressions, and their relation to finite automata.

Prerequisite: CS 10.

33. Programming Languages 3 hours

Syntax and semantics of several classes of programming languages (i.e. FORTRAN, COBOL, ALGOL, APL, RPG, PL-1). Students are expected to write, debug, and run programs in several of the major languages discussed.

Prerequisite: CS 22 or 24 or consent of instructor.

34. Computing And Programming Systems 3 hours

Computer organization as it affects programming. Number and symbol representation codes. Error detecting and correcting codes. Functional characteristics of the major units of a digital computer. Sequential and random access storage systems. Input-output channels, buffering, interrupt handling.

Prerequisite: CS 22 or 24 or consent of instructor.

39. Numerical Analysis (Math 39) 3 hours

Finite differences, numerical differentiation, integration, solution of equations and differential equations. Special reference to the use of digital computers.

Prerequisite: CS 10.

52. Application Data Processing To Accounting And Business Records (Acct. 52) 3 hours

Deals with fundamental concepts involved in converting a hand written and/or mechanical system of business records to either punch card or tape type data processing equipment. The course also includes the conversion period, the expansion and

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updating period, and the problems related to these normal steps in the complete development of a data processing system for business enterprises.

53. Simulation

3 hours

The course is designed to direct the student toward the applications of computer simulation with emphasis in model formulation. The orientation and application area depends upon the interest of the student. Simulation Languages will be studied (i.e., GPSS, GASP, SIMSCRIPT, etc.)

55. Independent Study

1-3 hours

Core Curriculum

The general education requirements of the College are incorporated in a single four-year sequence common to all students and totalling forty-five credit hours. The student always takes the Core course proper to the class level at which he is registered. The only exception provided for in this catalogue is that students in an approved 3-year science sequence will take Core 7, 8, 9 and 10 in their junior year. Other exceptions can be made only by the Vice President for Academic Affairs.

The Core curriculum is intended to give the students and faculty of the College a common experience in reflecting on man, his situation, civilization, and culture, his achievements and problems, his meaning and purpose. The program is made up of extensive reading, writing, and discussion, as well as lectures and other presentations, and is designed to promote personal awareness and social responsibility along with readiness and skill in thought and communication. Although the content will vary to meet new problems, the general outline is as follows:

Core 1. The Contemporary Situation

6 hours

A study of the human situation in the twentieth century with its crises and achievements. The course aims at student involvement in his world through reflection and communication. Required of all freshmen.

Core 2. The Modern World

6 hours

A study of the larger movements of civilization from the seventeenth to the twentieth century with emphasis on contemporary relevance. Required of all freshmen.

Core 3. Hebrew and Graeco-Roman Heritage

6 hours

A study of Graeco-Roman and Judaeo-Christian contributions to Western culture, stressing the intellectual, artistic, religious, and social contributions of this period. Required of all sophomores.

Core 4. Middle Ages

6 hours

The emergence of Europe from the end of the Roman period through the Middle Ages and the Renaissance. Required of all sophomores.

Core 5-6. The Foundations Of Science

6 hours

This course, extended through 2 semesters, will study developments in natural science and their theoretical and practical impact on the human situation. Required of all juniors except those in an approved 3-year science program.

Core 7-8. Non-Western Studies

6 hours

An examination of civilizations other than our own. By studying other cultures the student gains a new perspective and insight into the institutions and thought of the Western world. Extended through two semesters and required of all juniors.

Core 9. Towards A Christian Humanism 6 hours

This course attempts to point up the possibility of a Christian view of man by an examination of the general problems of humanism, religion, Christianity, and Catholicism. It applies psychological, sociological, philosophical, and theological considerations to the material provided by the previous Core experience. Required of all seniors, and of juniors in an approved 3-year science sequence.

Core 10. Christianity And The Human Situation 3 hours

A consideration of contemporary problems in the perspective of Christian faith. Special attention is given to the philosophical and ethical aspects of these contemporary issues. Required of all seniors and of juniors in an approved 3-year science sequence.

Department of Economics

The program in economics has the following objectives: 1. To enable the student to gain a basic understanding of our economic system, to provide a field of concentration for those students who wish to pursue economics as their major study, and to offer those courses which are approximately a part of the preparation for the study of business, government, and law. 2. To provide the requisite training for the teaching of economics in high schools, for the pursuit of graduate courses in economics, and for entrance into graduate schools of business.

Departmental Requirements:

1. Economics 21-22 are *prerequisites* for all courses. Students majoring in economics are likewise required to take Accounting 21-22.

2. The requirement for a *major* sequence in economics is 36 hours, including Economics 31, 32, 38, 48, and either 45 or 46. The requirement for a *minor* sequence is any 18 hours.

3. Students expecting to pursue graduate work in economics are advised to take Mathematics 15, 25, 26.

Suggested Program:

1. In the freshman year it is suggested that students majoring in Economics take: Core 1-2; Economics 8, 21-22; and Accounting 21-22.

2. In the sophomore year it is suggested that students majoring in Economics take: Core 3-4; Economics 31-32; Economics 35 and 38.

3. Students should see their faculty advisor prior to scheduling their junior and senior courses. This is particularly important for those students contemplating graduate study. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered for the second.

Teacher Education Requirements:

Teaching major in social studies: Core, 45 hours; professional education block, 18 hours; world history, 3 hours; American history, 6 hours; sociology, 3 hours; political science, 3 hours; geography, 9 hours (Geol. 11, 24, 26); and the economics major.

Teaching minor in economics: 15 hours in economics.

COURSES IN ECONOMICS**8. Mathematics For The Behavioral Sciences 3 hours**

This course is intended as a preparation for the course in elementary statistics. Topics include: set theory, symbolic logic, relations and functions, sequences and series, combinational analysis, and an introduction to the basic concepts of probability and discrete random variables.

21. Principles of Economics: Macroeconomics 3 hours

A study of the principles and problems connected with the level and fluctuation of national income and employment and the economics of growth.

22. Principles of Economics: Microeconomics 3 hours

A study of the principles and problems connected with the production, exchange and consumption of economic goods, and the principles of international trade.

31. Intermediate Income Analysis 3 hours

An intensive study of national income accounting and the theory of national income determination with special emphasis on the policy implications of the analysis.

32. Intermediate Price Analysis 3 hours

An intensive study of the theory of price in both the output and input markets with special emphasis on the application of modern tools of analysis to concrete business and public problems.

33. History of Economic Thought 3 hours

A historical survey of the concepts and tools of economic theory, including a study of the influence of economic, social, and political institutions on economic thought. *Offered every other year.*

35. Money And Banking 3 hours

A study of monetary standards, banking principles, and monetary theory with emphasis on the financial institutions of the United States.

36. Comparative Economic Systems 3 hours

A study of the economic systems existing in the contemporary world with special emphasis on the comparison of these systems with the mixed enterprise system of the United States. *Offered every other year.*

37. Government And Business 3 hours

A study of the foundations for government intervention in business and the activities in which it currently engages in relation to business, with emphasis on federal legislation as it applies to the maintenance of competition.

38. Elementary Statistics (Bus. Ad. 38) 3 hours

An introduction to the fundamentals of modern statistics. Topics include the following: collection and organization data, descriptive statistics, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis is on the interpretation and use of statistical analysis in business and economic problems.

There is no prerequisite for this course.

40. Public Finance (Pol. Sci. 40) 3 hours

A study of the principles of finance in government. Topics to be considered will include public revenues and expenditures, taxation, public debt, governmental budgeting, and fiscal policy.

42. American Economic History (History 40) 3 hours

- 43. Labor Economics** **3 hours**
 The course concentrates on the size and composition of the labor force, the history of the labor movement, the issues involved in collective bargaining, wages and hours, unemployment, and social security. *Offered every other year.*
- 45. Advanced Economic Theory** **3 hours**
 A survey of mathematical models of income determination, and applications of programming techniques and decision-making to the theory of the firm. *Offered every other year.*
Prerequisites: Economics 31, 32, 38.
- 46. Quantitative Analysis** **3 hours**
 A survey of the mathematical techniques used in economics. Topics will include: econometrics, the use of calculus and matrix algebra in economics, and the construction of economic models. No previous knowledge of calculus or advanced mathematics is needed. *Offered every other year.*
Prerequisites: Economics 31, 32, 38.
- 47. Economic Growth** **3 hours**
 An examination of the process of growth with emphasis on the problems and alternatives confronting the underdeveloped countries. *Offered every other year.*
- 48. International Trade** **3 hours**
 Examines the effects of trade on national income and production, the various policies that can be used to correct balance of payments problems, and the alternatives to the present international monetary system.
Prerequisites: Economics 31, 32.
- 50. Seminar** **3 hours**
 The seminar will be directed to a discussion of current issues in economics which are not covered in the content of other courses. *Open only to juniors and seniors who are obtaining a major or minor in economics.*
- 51. Honors Seminar in Economics** **3 hours**
- 55. Independent Study** **1-3 hours**

Department of Education

The Department of Education is designed to offer the student a knowledge of education in its theoretical and practical phases. Courses in the history and philosophy of education present the student the means of employing the best of mankind's thought in the betterment of today's schools. Other courses are offered with the express purpose of acquainting the student with the professional skills and competencies that will be needed in the exercise of teaching duties.

State requirements for certificates vary, but in general all states call for these basic requirements: 1. a four-year curriculum leading to the Bachelor's degree; 2. academic credit in major and minor areas; or, in the case of elementary teachers, adherence to a specified curriculum; 3. professional courses in education; 4. recommendation by the license advisor.

In addition, the state of Indiana requires colleges "to select, admit, and retain persons of sufficient scholastic potential to complete a successful program of teacher education which will eventually include a fifth year of graduate work culminating in a master's degree from an accredited institution." At Saint Joseph's College, this evaluation is one of the prime functions of the Teacher Education Committee. Students wishing to become professionally certified teachers at either the elementary or second-

ary level are to apply for admission the first semester of their junior year. They are to have a grade point average of 2.40, a healthy interest in teaching, and the personal and social qualities basic to sound teaching.

A grade point average of 2.50 is required for placement into student teaching and for recommendation for state certification. Elementary majors should not plan to stay in their program as soon as it becomes evident to them that they cannot achieve at this level. Students who feel that they have justifiable reasons for not being held to these regulations may appeal their cases to the Teacher Education Committee.

Departmental Requirements:

Students have an option of following programs leading to professional certification in elementary or secondary education. These programs are all authorized by the State of Indiana in accordance with the provisions of Bulletin 400, State Department of Public Instruction. In addition, they are approved by the National Council for Accreditation of Teacher Education (NCATE). This assures the student that he is pursuing a program that will qualify him for certification in most states. Students should raise questions about specific state license requirements with the institutional license advisor.

At the elementary level the department offers a bachelor of science degree in elementary education. The following courses are required: Core; 9 hours of science chosen from the chemistry, physics, geology and biology offerings so that three departments are represented; mathematics 1, 2, 3; 4 hours of Art (47-48); 4 hours of music methodology (28-29); physical education in the elementary school (41); advanced writing and grammar (47-48); 6 hours of American history; tests and measurements; growth and development; educational psychology; historical foundations; philosophical foundations; methodology in social studies, speech, math and science; the language arts block; remedial reading; student teaching and electives to total 124 semester hours.

At the secondary level teacher education programs are offered in the following majors: biology, chemistry, earth science, English, French, general science, mathematics, music, physical education and health, physics, social studies and speech. Minors are offered in these areas as well as in German, Spanish and psychology. The specific programs can be found in the appropriate departmental introduction. Students are reminded that teacher education programs are governed by both state and college regulations so the outlined programs should be carefully followed. It should be noted that all certification programs require a minimum of 124 semester hours. A maximum of 16 hours may be taken on a pass/not pass basis from the following courses: Art 47-48; Music 28-29; English 47-48; 6 hours of history; Physical Education 41.

A student who is preparing to teach in high school should major in the subject area in which he intends to teach. He will be advised in his major by his appropriate Teacher Education Committee representative. Elementary education students are advised by members of the education department. Students can obtain recommended programs for all the majors and minors from the education office. They should study these with care for they are designed to meet college requirement and professional education requirements. *In most cases these requirements cannot be changed.* If a student is in doubt he should be advised by a member of the education department. The professional education block required of all teachers consists of the following courses: historical and political foundations of education and philosophical foundations of education (30, 47), growth and development (31), Educational Psychology I and II (32, 33), the appropriate special methods course and student teaching.

Student Teaching Requirements:

Student teaching assignments are made in cooperating public and independent schools in the state. Application for student teaching should be made in the last

semester of the junior year. Placement is made by the Director of Student Teaching after approval by the Teacher Education Committee.

To qualify for student teaching a student must normally

- 1) Have a 2.50 grade average.
- 2) Have been in the teacher education program for at least one semester doing C work or better.
- 3) Have passed at least 6 hours of professional education credit.
- 4) Have completed the required number of laboratory experiences.

COURSES IN EDUCATION

15. Professional Laboratory Experience: Observation 0 hours

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on the growth and development area.

Required of all first semester sophomores in the teacher training program.

16. Professional Laboratory Experience: Observation 0 hours

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on the psychology of learning.

Required of all second semester sophomores in the teacher training program.

17. Professional Laboratory Experience: Observation 0 hours

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on classroom planning, methodology and curriculum materials.

Required of all first semester juniors in the teacher training program.

18. Professional Laboratory Experience: Observation 0 hours

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on evaluation in the teaching process.

Required of all second semester juniors in the teacher training program.

30. Educational Theory I: Historical and Political Foundations 2 hours

An historical study of the evolution of contemporary educational theory and practice. Principles and issues will be viewed in a social-political context.

31. Human Growth and Development 2 hours

A study of the psychological characteristics of child and adolescent development with special attention given to physical, emotional, social, intellectual and religious behavior. Development is viewed genetically with emphasis placed on the normality of behavior characterizing the various stages of childhood and adolescence.

32. Educational Psychology I: Psychology of Learning 2 hours

The course in educational psychology aims to give the student an understanding of the characteristics of human behavior and the factors which affect its development. Emphasis is placed on those basic facts and principles that are generally accepted by today's educators and that can be integrated into the student's own experience and made to function in his educational career.

33. Educational Psychology II: Tests and Measurements 2 hours

The following topics are studied in this course: history of the testing movement; principles of test construction; qualities of and evaluation of teacher and standardized tests; a study of the various types of individual and group tests; basic statistical concepts, the application of tests to educational and psychological problems, and the evaluation, interpretation, and application of test results; practice in taking and giving tests in actual educational and psychological situations.

34. Elementary Statistics 3 hours

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis is on the interpretation and use of statistical analysis in the social sciences.

35. Sociology of Education 3 hours

A study of the school as a social system as well as a basic institution in society. Emphasis will be placed on the sociological dimension of learning through reviews of contemporary social science research. (Same as Sociology 35).

36. Elementary School Curriculum 3 hours

A general introduction to the principles and trends in the various areas of the curriculum in the light of modern concepts of child development.

38. Counseling and Guidance 2 hours

Principles and techniques of personal counseling and of educational and vocational guidance of high school students. Attention is given to the use of appropriate tests, rating scales, interview techniques, organizing of the guidance program, placement and follow-up services in the high school.

40. Children's Literature 2 hours

A survey of traditional and contemporary literature for children from kindergarten through junior high school. Emphasis is placed on types of literature, methods of use, authors, and illustrators.

44. General Methods 1 hour

This course deals with general principles of effective teaching in secondary schools. Topics for discussion include: selection and arrangement of subject matter; motivation and direction of learning activities; discipline; questioning, assignment and review procedure; problem-project teaching and socialized recitation; development of appreciation, attitudes and ideals.

Note: May be taken only in conjunction with the Educ. 90 sequence.

47. Educational Theory II: Philosophical Foundations 2 hours

A study of contemporary major philosophical models of education designed to aid students in developing and integrating their own philosophy of education.

Student teaching must precede or be taken concurrently with this course.

51. Honors Seminar in Education 3 hours**55. Independent Study 1-3 hours****METHODOLOGY COURSES FOR ELEMENTARY TEACHERS****70. Methods in Mathematics and Science for Elementary Teachers 3 hours**

Techniques and methods of teaching elementary mathematics and science. Curriculum development, laboratory methodology, individual diagnosis, remedial teaching, evaluation.

71. Methods in Social Studies for Elementary Teachers 2 hours

Techniques and methods of teaching elementary social studies. Curriculum development, individual diagnosis, remedial teaching, evaluation.

72. Methods in Speech for Elementary Teachers 2 hours

Techniques and methods of teaching oral expression. Emphasis will be upon the diagnosis of simple defects and disorders.

73. Methods In Reading for Elementary Teachers

2 hours
- Techniques and methods of teaching elementary school reading. Curriculum development, individual diagnosis, remedial teaching, evaluation.
74. Methods In Language Arts for Elementary Teachers

2 hours
- Techniques and methods of teaching the language arts. Curriculum development, individual diagnosis, remedial teaching, evaluation.
75. Diagnostic and Remedial Techniques In the Teaching of Reading

3 hours
- Techniques and methods in remediation of reading difficulties.
- 77-78. The Language Arts Program In Elementary Schools

8 hours
- A two semester sequence covering the program in children's literature, reading and the other language arts. The course in professional laboratory experiences (93-94) must be taken simultaneously.

METHODOLOGY COURSES FOR SECONDARY TEACHERS

Each student preparing for secondary teaching is required to take the methodology course appropriate for his major area. Completion of this course is a prerequisite for certification and enrollment is limited to teacher education students. Curriculum development, laboratory methodology, individual diagnosis, remedial teaching, evaluation.

80. The Teaching of Language Arts In Secondary School

2 hours
- For teachers of English and speech. (To be offered 2nd semester, 1974-75)
81. The Teaching of Biology In Secondary Schools

2 hours
82. The Teaching of Mathematics In Secondary Schools

2 hours
- (to be offered 2nd semester, 1973-74; 1975-76)
83. The Teaching of Physical Sciences In Secondary School

2 hours
84. The Teaching of Health and Physical Education In Secondary Schools

2 hours
- (to be offered 2nd semester, 1974-75)
85. The Teaching of Music In Secondary Schools

2 hours
- (to be offered 2nd semester, 1974-75)
86. The Teaching of Social Studies In Secondary Schools

2 hours
- For teachers of history, political science, sociology, and economics. (to be offered 2nd semester, 1974-75)
87. The Teaching of Foreign Language In Secondary Schools

2 hours

PROFESSIONAL LABORATORY EXPERIENCES

The professional laboratory experiences are designed to give the prospective teacher an opportunity to test his technique in actual school settings.

Prerequisite In all cases: Departmental approval, 2.50 cumulative Index.

90. Student Teaching: Elementary

1 hour
- Approximately 30 clock hours of observation and participation. Repeatable.
91. Student Teaching: Secondary

1 hour
- Approximately 30 clock hours of observation and participation. Repeatable.

93-94. Practicum In the Teaching of Reading 2 hours

A two semester course designed to accompany 77-78. Approximately 30 hours each semester will be utilized in laboratory experiences related to the teaching of reading.

95. Student Teaching: Elementary 8 hours

A semester's program of observation and teaching in an approved elementary school.

96. Student Teaching: Secondary 6-8 hours

A semester's program of observation and participation in an approved secondary school.

PRE-ENGINEERING FIVE-YEAR ENGINEERING PROGRAM

The following programs enable students to combine a liberal arts course at Saint Joseph's College with education in Engineering at a University or Technical School. Under this plan, the student attends Saint Joseph's for three years* and then transfers to the Engineering School for the completion of advanced courses in a particular field of engineering. Formal agreements on this 3-2 program have been completed with the following: University of Detroit; Marquette University; Purdue University; Rose Hulman Institute; Saint Louis University (civil and industrial engineering); University of Illinois; University of Notre Dame; however, students may transfer to any accredited engineering college.

Upon successful completion of the requirements from Saint Joseph's and one successful year in the professional school, the candidate will receive the Bachelor of Science degree, and, upon the successful completion of the five-year course, the Bachelor of Science in Engineering from the school to which he has transferred. The B.S. degree for Aeronautical, Astronautical, Civil, Electrical, Mechanical, Metallurgical Engineering, and for Meteorology and Oceanography, is given in Mathematics-Physics; for Agriculture, in Biology-Chemistry; for Chemical Engineering, in Chemistry; for Industrial Engineering, in Economics.

Students in the 3-2 program are accepted at these engineering schools only on recommendation of the Dean's Committee on Engineering. They must submit a formal application for transfer to an engineering school in the fall semester of their junior year.

All 3-2 students are required to take the senior Core sequence and the non-western studies element of the junior sequence during the third year of the program prior to enrolling in the professional schools. They are excused from the Science Core sequence.

*Some programs may require a summer session at the engineering college.

Approved Sequence of Courses for the First Three Years of the 1. Aeronautical and Astronautical Engineering Program. 2. Mechanical Engineering Program. 3. Civil Engineering Program. 4. Electrical Engineering Program. 5. Meteorology and Oceanography.

FRESHMAN YEAR	Semester Hours		
Core 1, 2	6	6	The Contemporary World The Modern World
Mathematics 15, 25	3	3	Trigonometry and Analytic Geometry, Calculus I.
Chemistry 11, 12	4	4	General Chemistry
Physics 24		5	Mechanics and Heat
Economics 21		3	Principles of Economics
	16	18	
SOPHOMORE YEAR			
Core 3-4	6	6	Western Heritage; Middle Ages
Mathematics 26, 35	3	3	Calculus II and III
Physics 25		5	Optics, Electricity and Atomic Structure
Core 7-8	3	3	Non Western Studies
Physics 36		3	Modern Physics
Economics 22		3	Principles of Economics
	17	18	
JUNIOR YEAR			
Core 9, 10	6	3	Towards a Christian Humanism; Christianity and the Human Situation
Physics 37		3	Modern Physics
Physics 33, 34	3	3	Statics, Dynamics
Mathematics 36		3	Differential Equations
Computer Science 10	3	3	(1)
Mathematics electives		6	(1)
Mathematics 45		3	Advanced Calculus: Vector Analysis
	18	18	

(1) Civil Engineering students take Geology 11, Physical Geology; Electrical Engineering students take Physics 31, Electricity and Magnetism.

Approved Sequence of Courses for the First Three Years of a Combined Program In Agrlculture

	Semester		
FRESHMAN YEAR	Hours		
Core 1, 2	6	6	The Contemporary World, The Modern World
Biology 11-12	4	4	Introduction to Experimental Biology
Chemistry 11-12	4	4	General Chemistry
Mathematics 15, 25	3	3	Trigonometry and Analytic Geometry; Calculus I
	—	—	
	17	17	
SOPHOMORE YEAR			
Core 3, 4	6	6	Western Heritage
Physics 21-22	4	4	College Physics
Geology 11		4	Physical Geology
Chemistry 31-32	4	4	Organic Chemistry
Mathematics 26		3	Calculus II
	—	—	
	18	17	
JUNIOR YEAR			
Core 7, 8	3	3	Non-Western Studies
Core 9, 10	6	3	Christian Anthropology; Christianity and the Human Situation
Biology 43, 44	4	4	Microbiology
Economics 21		3	Principles of Economics: Macroeconomics
Electives from Mathematics and Physics	3	6	
	—	—	
	19	16	

Approved Sequence of Courses for the First Three Years of 1. Chemical Engineering Program, 2. Metallurgical Engineering Program

FRESHMAN YEAR	Semester Hours		
Core 1, 2	6	6	The Contemporary World; The Modern World
Chemistry 11-12	4	4	General Chemistry
Physics 21-22	4	4	College Physics
Mathematics 15, 25	3	3	Trigonometry and Analytic Geometry; Calculus I
	—	—	
	17	17	
SOPHOMORE YEAR			
Core 3, 4	6	6	Western Heritage
Chemistry 31-32	4	4	Organic Chemistry
Chemistry 36		4	Elementary Physical Chemistry
Physics 31		4	Electricity and Magnetism
Mathematics 26, 35	3	3	Calculus II; Calculus III
	—	—	
	17	17	
JUNIOR YEAR			
Core 9, 10	6	3	Christian Anthropology; Christianity and the Human Situation
Core 7, 8	3	3	Non-Western Studies
Chemistry 33		4	Quantitative Analysis
Mathematics 36		3	Differential Equations
Physics 33, 34	3	3	Statics, Dynamics
Physics 36, 37	3	3	Modern Physics
Mathematics Elective		3	
	—	—	
	19	18	

Approved Sequence of Courses for the First Three Years of the Industrial Engineering (and Operations Research) Program

FRESHMAN YEAR	Semester Hours		
Core 1, 2	6	6	The Contemporary World; The Modern World
Economics 21, 22	3	3	Principles of Economics: Macroeconomics and Microeconomics
Mathematics 15, 25	3	3	Trigonometry and Analytic Geometry; Calculus I
Physics 21, 22	4	4	College Physics
Bus. Ad., 21, 22	3	3	Industrial Organization; Principles of Marketing
	—	—	
	19	19	
SOPHOMORE YEAR			
Core 3, 4	6	6	Western Heritage
Physics 36, 37	3	3	Modern Physics
Mathematics 26		3	Calculus II
Accounting 21, 22	3	3	Principles of Accounting
Physics 31		4	Electricity and Magnetism
Comp. Science 10		3	Introduction to Programming for Digital Computers
Mathematics elective		3	
	—	—	
	19	18	
JUNIOR YEAR			
Core 9, 10	6	3	Christian Anthropology; Christianity and the Human Situation
Core 7, 8	3	3	Non-Western Studies
Physics 33, 34	3	3	Statics, Dynamics
Mathematics 35, 36	3	3	Calculus III: Differential Equations
Accounting 33		3	Cost Accounting
Physics Elective		3	
Mathematics Elective		3	
	—	—	
	18	18	

Department of English

The aims of the Department of English are: 1. To teach the student to read with understanding, and to write and speak with correctness, with exactness, and with some artistry. According to information compiled from fifty-three law schools, thirty-seven medical schools and over four hundred industrial organizations, these professions and businesses state "that training in English and literature, particularly at the college level . . . is invaluable in preparation for futures in these three outstanding professional areas." (C.F., "English: The Pre-Professional Major," *Bulletin of the Association of Departments of English*, March 1972.) Obviously, such professions and businesses look to the development of the individual as a whole. 2. To develop a capacity for the enjoyment of literature, especially of the major English and American authors. 3. To cultivate what Newman calls "enlargement of mind," which embraces breadth and depth of view, critical judgment, and good taste. 4. To provide adequate preparation for graduate studies, for teaching in secondary schools, and for the study of journalism, law or the professions. We wish our majors to be competent enough to analyze, interpret, reorganize and rephrase material; they should have the ability to present an argument logically, speak well in public, prepare well-documented reports, edit or rewrite material prepared by technical personnel and often, to write and to speak in a foreign language.

Departmental Requirements:

1. The requirement for a major sequence in English is 36 hours. Each major is required to take English 25 and 26 and in addition should take 6 hours from English 21, 22 and 23. The student is strongly urged to take 9 of these hours during the freshman year. The additional 24 hours required for the major should be chosen from courses numbered 30 and above.

2. The student majoring in English who wishes to graduate with a B.A. degree must show 12 hours of credit in a foreign language. The B.A. degree is recommended for English majors who plan to do graduate work. The B.S. degree is also available for English majors (no foreign language requirement). Please consult your faculty advisor about this option.

3. The English minor must choose 6 hours from English 21, 22 and 23. The remaining 12 hours can be chosen from the remaining course offerings.

Suggested Program:

1. Freshmen majoring in English should take: Core 1-2; English 21, 22 or 23, English 25 and 26. Students who wish a B.A. degree should also enroll in a foreign language (e.g. German 1-2).

2. Students should discuss with a departmental advisor the minor or minors they propose to take. Freshmen are assigned a departmental advisor; upperclassmen may choose their own.

Teacher Education Requirements:

Teaching major in English: Core, 45 hours; professional education block, 18 hours; 8 hours math and/or science; advanced writing (48); 6 hours advanced language and grammar (46, 47); 3 hours journalism (27); 3 hours American literature and the English major.

Teaching minor in English: 3 hours advanced writing; 3 hours advanced grammar; 3 hours American literature; 3 hours British literature and electives to total 24 hours in English.

COURSES IN ENGLISH

21. An Introduction to Poetry**3 hours**

Extensive analytical reading of lyrics to promote appreciation of lyrical diction, motifs, metrics, forms, types, and structures, and also to learn the pertinent nomenclature.

22. An Introduction to Fiction**3 hours**

An introductory study of such narrative techniques as plot development, characterization and point-of-view in fiction and related narrative modes. The course deals largely with the short story and is modern in its emphasis.

23. An Introduction to Drama**3 hours**

An introductory course in the essentials of dramatic literature — plot, character, conflict, and theme. This course traces the development of western drama and emphasizes movements of modern drama such as realism, naturalism, expressionism, existentialism, and the theatre of the absurd.

24. A Basic Course in College Composition**3 hours**

A course in the basic elements of clear and coherent expository prose. Accurate perception, organization and logical development are emphasized. (*Offered each year during the second semester.*)

25-26. A Survey of British Literature**6 hours**

A basic survey of British literature which examines the major writers of Britain within the historical context of the chief literary modes and conventions of their times.

(Required of all English and English-Education majors).

27. Laboratory in Journalism**3 hours**

A study and practice of the fundamentals of gathering and writing news, editing news, newspaper layout and design, and managing the financial affairs of a newspaper. Tailored to the needs of the English-Education major who may eventually become a high school newspaper or yearbook advisor; the course is designed to impart a practical and working knowledge of the newspaper itself and in its relation to the mass communication media.

(Required of all English-Education Majors).

30-34. Periods of British and Continental Literature**15 hours**

These period courses emphasize the major historical and literary movements of the time. At least one period course will be offered each year. The periods are:

30. *The Renaissance, 1350-1650*. 3 hours. Readings of the major writers in Europe from Boccaccio to Thomas More. Included for in depth study are such writers as Marlowe, Spenser, Shakespeare's non-dramatic works and John Donne.
31. *Neo-Classicism, 1660-1800*. 3 hours. Preliminary readings in Pascal, Moliere, Racine, Voltaire, and Milton: then in depth study of Dryden, Swift, Addison, Pope, and Johnson; some attention finally to the Pre-Romantics, especially Gray, Goldsmith, Thomson, Collins, Cooper, and Burns.
32. *The Romantic Movement, 1800-1832*. 3 hours. In depth readings of the Romanticists Blake, Coleridge, Wordsworth, Byron, Shelley, Keats, Lamb, Hazlitt, Scott, and DeQuincey. There is some more cursory attention given to their lesser contemporaries and on interrelations with continental authors and movements.
33. *The Victorian Age, 1860-1910*. 3 hours. Readings of the major writers in England from Tennyson to Pater. Included for in depth study are such writers as Carlyle, Newman, Browning, and Arnold. This course includes both poetry and prose, excluding fiction.

34. *The Twentieth Century*. 3 hours. This course concentrates on prose fiction and, to some extent, the drama and poetry of our century. It explores such major movements as existentialism; it studies such techniques as stream-of-consciousness writing; and discusses such recurring themes as alienation.

35-38. American Literature

12 hours

A four semester survey of major writers in America. The four semesters are grouped in the following chronological sequence:

35. *The Age of Ideology and Revolution to 1850*. 3 hours. Readings of the major writers in America from Bradford to Melville. Included for study are such writers as Franklin, Irving, Hawthorne, Emerson and Thoreau.
36. *The Gilded Age, 1850-1920*. 3 hours. Readings of the major writers in America from Whitman to Dreiser. Included for study are such writers as Dickinson, Twain, James, Crane, Robinson and Frost.
37. *The Modern Age, 1920-1950*. 3 hours. Readings of the major writers in America from Eliot to Wright. Included for study are such writers as Fitzgerald, Hemingway, Williams, Cummings, Hughes, Dos Passos and Faulkner.
38. *Contemporaries, 1950 to today*. 3 hours. Readings of the major writers in America today. Included for study are such writers as Roth, Malamud, Baldwin, Mailer and others who seem to be particularly influential at the time the course is offered.

39. The Romance

3 hours

A study of the idealizing impulse in literature and its major forms: utopian literature, quest literature, fantasy, Gothic Romance, and folk literature.

40. Comedy

3 hours

A study of theories and types of comedy. The course is comparative in its emphasis and covers the time-span of western literature, including comic drama, comic fiction, and comedy in the film.

41. Tragedy

3 hours

A study of theories and types of tragedy in Western Literature. Major critical essays, as well as tragedians, provide the readings for the course.

42. The Novel

3 hours

A study of the novel as a major literary form which cuts through national boundaries. The course will include novelists of the professor's choice such as Austen, Flaubert, Dostoyevsky, Joyce, Mann and Faulkner.

43. Satire and Irony

3 hours

A study of theories and types of satire and irony. This course emphasizes satire and irony as continuing artistic attitudes in drama, fiction and the essay.

44. The Cinema

3 hours

A study of the film as a major contemporary art form. The course includes a study of traditional and experimental films, film language and film criticism.

45. Literary Criticism

3 hours

A study of the nature, basic values, and techniques of literature as interpreted by various critics. Insight into principles, criteria, and method is deepened through selected readings.

46. The Development of Modern English

3 hours

A study of the historical patterns necessary for an understanding of the English language as it is spoken and written today. The early growth and development of English, changes in meaning and the value of words, and usage in modern English are

emphasized.

(Required of all English-Education majors.)

47. Linguistics and Grammar

3 hours

A study of the nature of language as particularly exemplified by English. The course offers special study in etymologies, meaning, and the units of English grammar from the morpheme to the sentence. Emphasis is on contemporary approaches and new trends with some attention given to conventional grammar.

(Required of all English-Education majors.)

48. Advanced Writing

3 hours

Advanced study of expository and persuasive or creative writing.

(Required of all English-Education majors.)

51. Honors Seminar In English

3 hours

55. Independent Study

1-3 hours

58. Major Writers

3 hours

A course of study in the major works of a significant world writer or group of writers. In the past writers such as Chaucer, Shakespeare, Milton, Dickens, O'Neill, Frost, Eliot, and Thomas Mann have been given special study.

59. Special Studies In Literature

3 hours

A course of study in a major literary topic. Some of the courses offered in the past have included: *Existentialism*, *Modern Poetry*, *The Russian Novel*, *Myth and Philosophy*, *American Drama*, *Afro-American Literature*, *The Harlem Renaissance*, *American Radicalism*.

Department of Foreign Languages

The courses offered by the Department of Foreign Languages are designed to fulfill these general aims: (1) to provide the student with a basic knowledge of modern and classical language; (2) to offer through the study of language an insight into and an appreciation of the literature and culture of other peoples. More specifically, the department's purpose is to provide the student with the basic skills in a language — namely, the ability to read, write and speak modern languages and to read and write classical languages — in preparation for entrance into graduate school, theological seminaries and the teaching profession.

Departmental Requirements:

1. The requirement for a major sequence in French is 36 hours. There are no prerequisites, but students must show adequate preparation and proficiency.

The requirement for a minor sequence in French is 18 hours. The requirement for a minor sequence in Latin, Greek, German and Spanish is 6 hours above the intermediate level.

Students who major in one foreign language may minor in another foreign language, and are thus exempted from the 48 hour limit in one department.

Teacher Education Requirements:

Teaching major in French: the following courses are required: Core, 45 semester hours; professional education block, 18 semester hours; 8 semester hours math and/or science; and the major in French. The total in foreign language credits must be 38. 3 hours of the appropriate national history may be used in this total.

Teaching minor in French, German, Latin or Spanish: 24 semester hours in one language.

COURSES IN FRENCH**1-2. Elementary French 6 hours**

This introductory course insists on pronunciation, vocabulary building, free conversation, and structural analysis. Development in speaking, writing, and reading is encouraged by emphasis on aural comprehension and free conversation. Dialogue between students is carried on in class.

21-22. Intermediate French 6 hours

The thorough presentation of grammar is aimed at increasing the students' ability to understand and speak French. Modern prose readings from select literary works are done, with discussion in French. Application of grammatical usage is made in classroom dialogues. Training in oral and written expression is intensive. An introduction to literary translation, stylistics and versification is given.

31-32. Introduction to French Literature 6 hours

Readings are selected from medieval through contemporary literary works. There is systematic and intensive oral practice in French. Topics are assigned for individual presentation and group discussion. The student is given the perspective necessary for the period courses which follow. Class is conducted in French.

33. Medieval French Literature 3 hours

Representative readings are done in modern translation and in Old French of the *Chanson de geste*, *Roman Courtois*, religious and secular theater, Chroniclers; lyric poetry is studied, including the *genres determines* and *poesie a forme fixe*; Roland Tristan, Ruteuf, Farces, Villon, etc. Class is conducted in French.

34. Renaissance French Literature 3 hours

Humanism, Reform, Petrarchism and Baroque are studied as reflected in the works of Rabelais, Montaigne, Calvin, and the Pleiade poets. An introduction to the interpretation of French texts is given. Class is conducted in French.

35. Seventeenth Century Literature 3 hours

Texts selected from the literature of the Golden Age are read and analyzed, stressing the theatre of Corneille, Racine, and Moliere. The work of Madame Lafayette is studied. Attention is also given to the philosophers and moralists of the classical period and to the birth of science in France under the influence of the Arab immigration from Spain. Class is conducted in French.

36. Eighteenth Century Literature 3 hours

A consideration of the major literary and philosophical writings of the Age of Enlightenment. Emphasis is given to Rousseau, Voltaire, Montesquieu and Diderot. Class is conducted in French.

41. Nineteenth Century Literature 3 hours

The Romantic School is studied as illustrated by the major poets and playwrights, as well as Chateaubriand and Stendhal; the prose writings of Victor Hugo and others of the first term are studied. Realism and Naturalism are stressed in the novels of Balzac and Flaubert and the poetry of the Parnassians and the Symbolist Schools. Class is conducted in French.

42. Twentieth Century Literature 3 hours

Works of the first generation writers are studied: Proust, Gide, Claudel, Valery, the surrealists and others. The works of Mauriac, Mallreaux, Camus, Sartre, black writers, and French Canadian literature are all treated. Class is conducted in French.

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49-50. French Civilization I-II 6 hours

After a paleontology and prehistory of Europe, the course deals with French religion, philosophy, history, literature, art, and music.

51. Honors Seminar 3 hours

55. Independent Study 1-3 hours

COURSES IN GERMAN

1-2. Introductory German 6 hours

Exercises in pronunciation, essentials of grammar, and functional vocabulary. Intensive reading from graded texts.

21-22. Intermediate German 6 hours

Review of grammar. Practice in reading and writing. Required selections from modern works in the narrative, dramatic, and scientific styles.

26. Scientific German 3 hours

An intensive reading for students majoring in science. This course may be substituted for German 22.

31. Advanced Composition 3 hours

Correct, idiomatic and effective writing in German. Translations are assigned, as well as topics for individual creative writing.

32. Advanced Conversation 3 hours

Systematic and intensive German oral practice. Topics are assigned for individual presentation and group discussion. The class is conducted in German and audio-visual aids are used to perfect pronunciation.

33-34. German Civilization 6 hours

A survey of German history and culture from the beginnings to the present. Class is conducted in German.

35. German Literature To 1775 3 hours

A survey of German literature from its beginnings through Lessing. Selections from periods prior to the development of New High German are read in a modern German translation. Class is conducted in German.

36. Goethe and Schiller 3 hours

Works illustrating the full range of development of each of these authors will be read. Class is conducted in German.

37. German Romanticism and Realism 3 hours

A study of the two main literary movements of the 19th century. Class is conducted in German.

38. Modern German Literature 3 hours

A survey of the major literary movements and authors from the start of Naturalism in 1880 to the present. Class is conducted in German.

51. Honors Seminar 3 hours

55. Independent Study 1-3 hours

COURSES IN GREEK

1-2. Elements of New Testament Greek 6 hours

A study of the fundamentals of inflection and rules of syntax as found in the Greek of the New Testament.

21-22. The Greek New Testament 6 hours
The course aims to impart a reading knowledge of the Greek New Testament through the reading of some selections from the Gospels and the *Acts of the Apostles*.

24. Greek Drama 3 hours
A study of the origins and development of Greek drama.

35. Classical Mythology 3 hours
A study of classical Greek and Roman mythology. No knowledge of the ancient languages required.

COURSES IN LATIN

1-2. Introductory Latin 6 hours
Latin I is a study of fundamentals aimed at an early acquisition of a reading knowledge of Latin. Latin II is a continuation of Latin I (prerequisite: Latin I or equivalent).

11-12. Intermediate Latin 6 hours
Latin 11 aims to develop the student's ability to recognize grammatical usage through composition and selected readings of moderate difficulty. Latin 12 is a continuation of Latin 11.

21. Cicero The Orator 3 hours
Reading and appreciation of selections from Cicero's orations.

22. Roman Epic 3 hours
History of Epic poetry; selections from Virgil's *Aeneid*.

31. Christian Latin 3 hours
Introduction to the grammar and syntax of ecclesiastical Latin; selections from all periods.

32. Patristic Latin 3 hours
Readings from the Latin Fathers.

33. Roman Historians 3 hours
Selections from Caesar, Livy and Tacitus.

34. Roman Comedy 3 hours
Plautus and Terence.

35. Latin Composition 2 hours
Advanced exercises in continuous prose composition.

36. Horace 3 hours
Selected Odes and Epodes.

37. Roman Satire 3 hours
History of satire: selections from Horace and Juvenal.

38. Cicero The Philosopher 3 hours
Selections from *De Senectute* and *De Amicitia*.

39. Medieval Latin Verse 3 hours
Selections from Latin verse of the Medieval period.

41. Readings in A selected Latin Author 3 hours
This is designed to give the student an opportunity to study in depth an author of his choosing.

51. Honors Seminar 3 hours

55. Independent Study 1-3 hours

COURSES IN SPANISH**1-2. Introductory Spanish 6 hours**

Drill in the basic grammatical rules. Simultaneous development of the four ends of language study: reading, aural comprehension, writing and speaking.

21-22. Intermediate Spanish 6 hours

Review of basic grammatical forms, plus advanced grammar and idiomatic usage. Reading of selected texts and written reports are required.

31. Advanced Composition 3 hours

Correct, idiomatic and effective writing in Spanish. Translations are assigned as well as topics for individual creative writing.

32. Advanced Conversation 3 hours

Systematic and intensive Spanish oral practice. Topics are assigned for individual-presentation and group discussion. The class is conducted in Spanish, and audio-visual aids are used to perfect pronunciation and inflection.

35-36. Spanish Literature 6 hours

Survey of Spanish literature from its beginnings to modern times. Selected readings from the most important authors. Written and oral reports are required.

41-42. Spanish-American Literature 6 hours

A survey of Spanish American literature with emphasis on the nineteenth and twentieth centuries. Selected readings from representative authors from various countries.

Department of Geology

In addition to their contribution to general education the courses in geology, earth science, and environmental science are designed to prepare the student for entrance into graduate school or specific occupational fields. In this latter respect the courses are designed to prepare the student for a position with the United States Geological Survey, State Geological Surveys, and the United States Department of Agriculture. In addition to the aforementioned governmental agencies, the curriculum is intended to prepare the student for employment in the petroleum, mining, and other related private industries.

Laboratory fees: Geology 11 and 12, each \$5.00.

Geology 33, 34, 36, 37, 41, and 44 each \$7.50.

Departmental Requirements:

1. Geology 11-12 are *prerequisites* for all upper level courses in geology.
2. The requirement for a *major* sequence in geology is 32 hours, including Geology 33, 36, 39, 41, 43, and 44. It is further necessary that the student majoring in geology show credit in or give evidence of sufficient knowledge of Physics 21-22, Chemistry 11-12, and Math 15. Math 25-26 are strongly recommended for the major in geology. The requirement for a *minor* sequence in geology is 18 hours.
3. Geology 36 is offered in the Spring Session. Therefore, students will be required to attend a Spring Session, preferably in their junior year.

Suggested Program:

1. Students majoring in geology will take in their freshman year: Core 1-2; Chemistry 11-12; Geology 11-12; Math 15.
2. Requirements and electives recommended in the sophomore year are the following: Core 3-4; Geology 33-34; Math 25-26 or Physics 21-22.

3. Students should see their faculty advisor prior to scheduling their junior-senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

Teacher Education Requirements:

Teaching major in earth science: Core, 45 hours; professional educational block, 18 hours; Geology 11, 12, 24, 25, 26, 35, 41, 47, 48, conservation of natural resources and the major in geology.

Teaching minor in earth science: Geology 11, 12, 25, 26, 35; conservation of natural resources and electives in geology to total 24 hours.

Program Leading to Bachelor
of Science Degree
in Environmental Science

This program is designed so that a graduate would be able to perform laboratory and field work, to assume an administrative position in government or industry, or to go on to graduate school. Students should seek guidance on elective options at the inception of this program.

FRESHMAN YEAR

Fall Semester		Credit Hours
Core I	The Contemporary Situation	6
Chemistry 11	General Chemistry	4
Mathematics 15	Trigonometry and Analytic Geometry	3
Biology 11	Introduction to Experimental Biology	4
		17
Winter Semester		Credit Hours
Core 2	The Modern World	6
Chemistry 12	Elementary Analysis	4
Biology 12	Experimental Biology	4
Elective		3
		17

SOPHOMORE YEAR

Fall Semester		
Core 3	Hebrew and Greco-Roman Heritage	6
Physics 21	Mechanics and Heat	4
Geology 11	Earth Science	3
Computer Science 10	Introduction to Programming	3
		16
Winter Semester		
Core 4	Middle Ages	6
Physics 22	Optics, Electricity & Atom Structure	4
Geology 26	Meteorology	3
Geology 28	Man and His Environment	3
		16

JUNIOR YEAR

Fall Semester		
Core 5	The Foundations of Science	3

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Core 7	Non-Western Studies	3
Biology 32	Conservation of Natural Resources	3
Elective		3
Chemistry 33	Quantitative Analysis	<u>4</u>
		16

Winter Semester

Core 6	The Foundations of Science	3
Core 8	Non-Western Studies	3
Biology 33	Ecology	4
Elective		3
Elective		<u>3</u>
		16

Summer Field Laboratory In Water Pollution	6
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SENIOR YEAR

Fall Semester

Core 9	Towards a Christian Humanism	6
Economics 21	Principles of Economics: Macroeconomics	3
Elective		3
Elective		<u>3</u>
		15

Winter Semester

Core 10	Christianity & the Human Situation	3
Chemistry 34	Instrumental Methods of Analysis	4
Economics 38	Elementary Statistics	3
Geology 59	Environmental Systems	3
Elective		<u>3</u>
		16

Credit Hours

SUGGESTED ELECTIVES

Geology 36	Field Methods
Geology 37	Photogeology
Mathematics 25	Calculus I
Mathematics 26	Calculus II
Mathematics 35	Calculus III
Mathematics 36	Differential Equations
Computer Science 24	Introduction to Algorithmic Processing-Scientific

COURSES IN GEOLOGY

11. Earth Science 3 hours

This course introduces the student to earth studies through a study of the following topics: rock weathering, mass wasting, sculpture of lands by streams, subsurface water, soils, glaciation, eolian processes, marine erosion and deposition, volcanism, deformation fo the earth's crust, earthquakes, the common minerals and rocks, topographic maps. Two lectures and one laboratory period each week.

12. Historical Geology 4 hours

A study of the geochronology through the following topics: earth history recorded in the rocks, the constant change of living things, the scale of time, the Precambrian, Paleozoic, Mesozoic, Cenozoic world, fossils, geologic maps and charts. Three lectures and one laboratory period each week.

Prerequislte: Geology 11.

24. Anthropological Geography 3 hours

A conceptual course tracing the evolution of man and races, the character and arrangement over the earth of the physical-biotic systems that constitute the natural surroundings of man and concepts evaluating the significance to man of the natural surroundings.

25. Astronomy 3 hours

A non-mathematical introduction to astronomy including the history of astronomy, determination of location using celestial bodies, and main features of the known universe. Also an emphasis on tools used in astronomy and speculation concerning the origin of planets, stars, and galaxies.

26. Meteorology 3 hours

An introduction to meteorology with emphasis on the vertical structure of the atmosphere, cloud formations, general air circulation, air mass exchange, and various atmospheric and weather processes.

28. Man and His Environment 3 hours

The treatment of contemporary concepts of analyzing the problems and characteristics of the environment. Discussion of current literature from various pertinent disciplines is emphasized.

33. Mineralogy 4 hours

A course dealing with physical, chemical, descriptive, economic, and determinative mineralogy, and the fundamentals of crystallography. Two lectures and two laboratory periods each week.

Prerequisites: Chemistry 11, 12 or consent of instructor.

34. Optical Mineralogy 3 hours

Theory and practice of determining the optical properties of minerals with the aid of the petrographic microscope. One lecture and two laboratory periods per week.

Prerequisite: Geology 12, 33.

35. Geomorphology 3 hours

The study of the land forms produced by various geologic processes on the surface of the earth; the use of land forms in the determination of geologic history. Two lectures and one laboratory period each week.

Prerequisite: Geology 12.

36. Geologic Field Methods 3 hours

This course treats the use of the plane table and alidade, Brunton compass, altimeter, and other instruments used in geologic field problems and mapping. Two three-hour laboratory periods each week. Offered in the Spring Session.

Prerequisite: Geology 12.

37. Photogeology 2 hours

The course embraces the evaluation and depiction of geologic phenomena from aerial photographs. The primary emphasis is placed on the delineation of structural, stratigraphic, geomorphic and cultural features. Two two-hour laboratory periods per week.

Prerequisites: Geology 43, 44.

39. Petrology 3 hours

A study of the formation, occurrence, and characteristics of the common rocks together with their field identification. Two lectures and one laboratory period each week.

Prerequisites: Geology 12, 34.

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41. Invertebrate Paleontology 4 hours

Morphology, classification, geologic significance of fossils; special emphasis on the study of index fossils of North America. Three lectures and one laboratory period each week.

Prerequisite: Geology 12.

43. Structural Geology 4 hours

A study of the framework of the earth's crust; the deformation of the earth, its causes and effects. Three lectures and one laboratory period each week.

Prerequisites: Geology 12 and Math 15.

44. Stratigraphy and Sedimentation 4 hours

Methods of description, classification, interpretation, and correlation of rock units. Laboratory exercises are designed to aid in understanding stratigraphic problems, fundamentals of sediment study methods, paleo-environments, and facies changes. Two lectures and two laboratory periods each week.

Prerequisites: Geology 12, 39, 41.

46. Economic Geology 3 hours

A study of the general principles for the formation of mineral deposits, together with an application of these principles to the study of specific economic mineral deposits. Two lectures and one laboratory period each week.

Prerequisites: Geology 12, 39.

47-48. Seminar In Geology 2 hours

Discussion of special problems.

Prerequisite: Junior Standing.

51. Honors Seminar In Geology 3 hours

55. Independent Study 1-3 hours

59. Environmental Systems 3 hours

This course is conducted as a seminar with faculty from Biology and Geology Departments sharing in the selection of specific topics to be covered. It is intended to provide the student with current information on governmental agencies and legislation concerned with the environment. Further, considerable time will be spent on causes and cures of environmental destruction from an engineering point of view.

Department of History

The Department of History offers to enlarge the student's intellectual horizon by an ordered, meaningful, and up-to-date inquiry into man's past. This includes not only courses in United States and European history, but also introductions into several areas of non-western history and into the basic skills of historical research itself. Concentration in history prepares the student for graduate studies, entry into law school, and teaching in secondary schools, as well as providing a broad, cultural basis for a later career in various fields of business or the arts.

Departmental Requirements:

1. A major sequence in history requires 36 hours including History 23-24, History 50 (Pro-Seminar), and at least one course selected from each of the following four fields: Medieval (31, 42); Modern European (45, 47, 48); American (33, 34, 36, 37, 38); and Non-Western (39, 40, 41, 43, 44, 46).

2. Students expecting to pursue graduate studies in history are advised to take at least twelve hours or the equivalent in a foreign language, preferably French and German.

Suggested Program:

1. Freshman students majoring in history will take: Core 1-2; History 23-24; and Political Science 21. Foreign language is recommended as a freshman elective.

2. Electives recommended for the sophomore year are the following: Economics 21-22, further courses in foreign languages.

3. Political Science 44, International Relations, may be counted towards the 36 hours required for a major in history.

Teacher Education Requirements:

Teaching major in history: Core, 45 semester hours; professional education block, 18 semester hours; 6 hours American history; 3 hours political science; 3 hours sociology; 6 hours economics; 9 hours geography (Geology 11, 24, 26); and the major in history.

Teaching minor in world history: 15 hours of world history.

Teaching minor in American history: 15 hours of American history.

COURSES IN HISTORY

23-24. United States History, I-II 6 hours

A study of American civilization from its European origins until 1865 in the first semester; its development since 1865 until the present is considered in the second semester.

30. Christian Origins 3 hours

The origins of Christianity and the emergence of the first Christian communities and churches; the organization of the first Christian theological schools, ecumenical councils, and Christian cultures to the beginnings of the Middle Ages.

31. Medieval Europe 3 hours

The development of Europe from the disintegration of the Roman Empire in the West to the Renaissance. The Church, feudalism, the manorial system, and town life are among the major topics treated. Stress is placed upon the social and economic life in the period.

33. The American Frontier 3 hours

The history of the American frontier with emphasis upon westward expansion, continuous settlement, and the import of the frontier experience on American cultural and political ideas and institutions.

34. American Nationalism and Sectionalism 3 hours

Within the Federalist, Jeffersonian, and Jacksonian administrations, there is stressed the new nationalism, the rise of the common man, and the ascendancy of sectionalism.

36. Twentieth Century America 3 hours

Emphasis is given to the political and social history from Theodore Roosevelt to Richard Nixon.

37. American Foreign Relations 3 hours

A survey of United States relations with Europe, Latin America, Russia, and the Orient, tracing the origins and development of our foreign policy and the history of the men who framed it. (May be taken for Political Science credit).

38. American Economic History (Economics 42) 3 hours

Included are the physical environment of American economic development, colonization, continental expansion and industrialism, the economy during war time, prosperity, and depression.

39. History of Latin America: Colonial 3 hours

A study of the main trends in the development of Latin American civilization from the Age of Discovery to the Wars of Liberation.

40. History of Latin America: National 3 hours

A study of the major nations of Latin America from the Wars of Liberation to the present.

41.1-41.2. History of the Far East I-II 6 hours

The Western impact on the Far East and the Eastern response the 19th and 20th centuries. International relations are appropriately emphasized, but full attention is given to the more fundamental factors of institutions and ideas. The first semester stresses China, and the second, Japan.

42. English Medieval Constitutional History 3 hours

The constitutional and legal institutions and development of the English people from Anglo-Saxon times to the early modern period. (May be taken for Political Science credit).

43-44. History of Russia I-II 6 hours

The origins and growth of the Russian people and institutions from the eighth century to the present.

45. Renaissance and Reformation 3 hours

Emerging modern Europe between about 1450 and 1648: the rise of national monarchies, the commercial revolution, the renaissance, and the religious reformations.

46. The Byzantine Empire 3 hours

The origin and history of the Eastern Roman Empire from Constantine until the emergence of the eastern European and Russian nations, emphasizing the reigns of the greater emperors, Church-State relationships, and Byzantine art and culture.

47. Revolutionary Europe, 1789-1871 3 hours

The history of Europe from the French Revolution through the unifications of Germany and Italy.

48. Europe Since 1914 3 hours

A study of warfare, totalitarianism, dictatorships, and "collective security" in our own times.

50. Pro-Seminar in History 3 hours

An introduction, by means of directed reading and individual projects, to the methods of historical research, historiography, and the philosophy of history.

55. Independent Study 1-3 hours**59. Topics in History 3 hours**

Department of Mathematics

The mathematics courses offered below are designed to help the student attain: 1) an understanding and appreciation of the fundamental methods of deductive reasoning; 2) adequate preparation for work in graduate and professional schools; 3)

facility in the use of mathematics as a tool; 4) thorough familiarity with modern mathematical concepts.

Departmental Requirements:

1. The requirement for a *major* sequence in mathematics is 36 hours including the following: Mathematics 32, 33, 35, 36, 46. The requirement for a *minor* sequence is 18 hours.

2. A group-major in mathematics-computer science will require a total of 54 hours: a minimum of 21 hours of computer science including CS 31, 33, 34, 39, and 53; and a minimum of 30 hours of mathematics including Math 32, 35, and 36. Math 37, 38, and 42 are recommended. 3 additional hours are to be elected from the mathematics and computer science offerings.

All other group-majors involving mathematics will require a minimum of 21 hours of mathematics and a total of 54 hours.

Suggested Program:

1. In the freshman year, students majoring in math will take: Core 1-2; Math 12, 15; Computer 10.

2. Students should consult their faculty advisor in the mathematics department prior to scheduling courses.

3. The standard sequence of courses for science students and, in particular, for engineering students should be as follows: Mathematics 15 (Trigonometry and Analytic Geometry), Mathematics 25, 26, and 35 (the Calculus sequence).

Teaching Education Requirements:

Teaching major in mathematics: Core, 45 hours; professional educational block, 18 hours; 3 hours advanced modern algebra; 3 hours advanced geometry; 3 hours probability and statistics; 3 hours physics, chemistry, or computer science; and the mathematics major.

Teaching minor in mathematics: 9 hours calculus; advanced modern algebra; advanced geometry and electives to total 24 hours.

COURSES IN MATHEMATICS

1. Fundamental Theory of Arithmetic for Elementary Teachers 3 hours

This course is designed specifically for elementary teachers and stresses the number system structure from natural numbers to and including rational numbers. Major areas of emphasis are set terminology, numeration systems, basic number of properties, and review of fundamental arithmetic processes.

2. Algebra for Elementary Teachers 3 hours

This course completes many of the topics begun in Math 1. Basic emphasis is on the number system through complex numbers.

3. Geometry for Elementary Teachers 3 hours

Emphasis is on intuitive plane Euclidean geometry and the development of a formal geometry from the basic elements of points, lines and planes. Some consideration of mathematical proof is included.

8. Mathematics for the Behavioral Sciences 3 hours

This course is designed specifically for students majoring in a behavioral science. It is intended as a preparation for the course in elementary statistics required by the behavioral science departments. Topics include: set theory, symbolic logic, relations and functions, sequences and series, combinatorial analysis, and an introduction to the basic concepts of probability and discrete random variables.

- 12. Introduction To Modern Algebra** **3 hours**
The basic properties of algebraic structures; extensive use of these properties applied to traditional algebra; detailed examples of algebraic structures; introduction to integers, rationals and reals; introduction to algebra of sets.
- 15. Trigonometry and Analytic Geometry** **3 hours**
Linear equations; the circle, parabola, ellipse, and hyperbola; parametric equations; polar coordinates.
- 25. Calculus I** **3 hours**
An introduction to the Calculus through the following concepts: functions, limits of functions, continuity, derivatives, differentiation of algebraic functions, applications of derivatives, antiderivatives, and the definite integral.
- 26. Calculus II** **3 hours**
The differentiation and integration of the transcendental functions, standard methods of integration, study of polar co-ordinates, introduction to vectors in the plane, and improper integrals.
Prerequisite: Mathematics 25.
- 32. Modern Algebra I** **3 hours**
Sets, relations and mappings; introduction to Boolean Algebra; axiomatic development of the complex number system; polynomial domains.
- 33. Advanced Euclidean Geometry** **3 hours**
This course introduces the student to an extensive body of synthetic geometry. It includes notable points of the triangle, concurrency and collinearity, harmonic ranges and pencils, orthogonal circles, poles and polars, homothecy, coaxal circles, inversion and involution. It requires only the known Euclidean concepts.
- 35. Calculus III** **3 hours**
An introduction to vectors in three-dimensional space, partial differentiation, multiple integrals, infinite sequences and series and an introduction to differential equations.
Prerequisite: Mathematics 26.
- 36. Differential Equations** **3 hours**
Differential equations from a practical view point, combining the formal exercises of integrating the various standard types of differential equations with the setting-up of equations from problems of natural science.
Prerequisite: Mathematics 35.
- 37. Theory of Numbers** **3 hours**
The elementary properties of integers, divisibility of integers and Euclid's Algorithm; solutions to Diophantine Equations; prime numbers, aliquot parts, congruences and quadratic residues.
- 38. Probability and Statistics** **3 hours**
From this course the student gains an understanding of the kinds of regularity that occur amid random fluctuations; experience in associating probabilistic mathematical models to interpret physical phenomena and to predict, with appropriate measures of uncertainty, the outcomes of related experience.
Prerequisite: Mathematics 25, 26.
- 39. Numerical Analysis** **3 hours**
Finite differences, numerical differentiation, integration, solution of equations and differential equations. Special reference to the use of high computers.
Prerequisite: Mathematics 35.

42. Modern Algebra II 3 hours

Elementary group theory; subgroups; homomorphisms and automorphisms; Cayley’s Theorem and permutation groups; Sylow’s Theorem; elementary ring theory; ideals and quotient rings; elementary field theory and extension fields.

Prerequisite: Mathematics 32.

43. Introduction To Modern Geometry 3 hours

This course has two objectives: to present geometry as an interrelated study of various specific geometrical systems, which are characterized by properly chosen postulate systems; and, in this framework, to present a treatment of some Euclidean theorems which meet current standards of rigor. It will touch on logical systems, selection of systems of axioms, non-metric projective geometry, non-Euclidean and metric projective geometry. Incidence and order are emphasized.

Prerequisite: Mathematics 33.

44. Linear Algebra and Matrices 3 hours

Vector spaces over a field; linear transformations and linear algebras; matrices and their operations; linear equations and determinants; various kinds of matrices; equivalence of matrices.

Prerequisite: Mathematics 32.

45. Advanced Calculus: Vector Analysis 3 hours

An introduction to vector analysis; line integrals and their evaluation; Green’s Theorem in the plane; surface integrals; Stoke’s Theorem; divergence theorem; applications in physics. Selected topics from Fourier Series, LaPlace Transforms and gamma-beta functions.

Prerequisite: Mathematics 35.

46. Advanced Calculus: Real Analysis 3 hours

A modern, topological approach to real analysis, dealing with the following concepts; bounded sets, convergence of sequences and sub-sequences of real numbers, continuous functions on metric spaces; open and closed sets; connectedness, completeness and compactness; Riemann Integral; derivatives; law of the mean; fundamental theorems of calculus; improper integrals.

Prerequisite: Mathematics 35.

51. Honors Seminar in Mathematics 3 hours

55. Independent Study 1-3 hours

Department of Music

The aim of the department of music is to further the intellectual and aesthetic development of the student through the medium of music theory and practice, secular and religious. To achieve this aim, the department offers the Bachelor of Arts and Bachelor of Science degrees. The student majoring in music may concentrate in piano, organ, theory and composition, church music or music education. Students concentrating in church music may emphasize organ, voice, choral conducting, or composition. Students concentrating in music education may emphasize a keyboard instrument, a band instrument, or voice.

Departmental Requirements:

- 1. For students concentrating in piano or organ: Music 11, 12, 21, 22, 33, 34, 43, 44, 45, 48, 50; 16 hours of applied music on the given instrument.

2. For students concentrating in theory and composition: Music 11, 12, 13, 21, 22, 33, 34, 37, 41a, 41b, 42 (6 hours), 43, 44, 48, 8 hours of piano; passing of a proficiency examination in piano.

3. For students concentrating in church music: Music 11, 12, 13, 21, 22, 33, 34, 37, 43, 44, 45, 46, 47, and one of the following:

- a. ORGAN emphasis

Piano 4 hours

Organ 8 hours

Voice 2 hours
- b. VOICE emphasis

(available summer only)

Piano 4 hours

Organ 2 hours

Voice 8 hours
- c. CONDUCTING emphasis

(available summer only)

Piano 4 hours

Organ 4 hours

Voice 4 hours

Conducting 2 hours
- d. COMPOSITION emphasis

Piano 4 hours

Organ 2 hours

Voice 2 hours

Composition 6 hours

4. For those concentrating in music education: Required courses in Music:		
Music 11, 12, 21, 22	12 hours	
Music History & Lit.	6 hours	
Applied Music	10 hours	(must include 4 hours of piano)
Music 13, 46	5 hours	
Music 41a or 41b	2 hours	
Music 50	1 hour	
TOTAL	36 hours	

Required courses in Education: 18 hours, including Ed. 30, 31, 32, 33, 47, 85, and 96. 8 semester hours of mathematics and/or science, in addition to the Core program, are also required.

For choral-General Certification the 10 hours of applied music (above) must include one credit hour of voice; required also is Music 29 (Choral Methods for Elementary Teachers — 2 hours).

For Instrumental Certification the ten hours of applied music must include at least six credit hours of a non-keyboard instrument; required also are Music 38a, 38b, 38c, and 38d (Instrumental Techniques — 8 hours).

For Area Certification (both Choral-General and Instrumental) eleven credit hours of applied music are required, including 4 credit hours of piano, 2 credit hours of a non-keyboard instrument, and 1 credit hour of voice. The student must also take Music 29, 38a, 38b, 38c, 38d, and 3 credit hours of music electives. Participation in major ensembles may serve to fulfill state certification requirements.

5. For all students majoring in music participation in a major ensemble each semester is required. For those concentrating in church music participation in a choral ensemble is required.

6. For a *minor* in music: Music 11, 12, 25; one of the following: 33, 34, 43, 44; music electives — 8 hours.

7. The music major must pass the reading proficiency test upon entrance or make up the deficiency through non-credit training.

COURSES IN MUSIC THEORY AND HISTORY

11. Musical Science I3 hours

An integrated course in music theory, including elementary keyboard harmony, sight-singing, and analysis. Notation. Scales, intervals, melody-writing, melodic analysis, phrase and period structure. Rhythm and meter. The two-voice framework. Two-voice and three-voice combinations. Introduction to non-chord tones. Primary triads.

Basic harmonic progressions. Sixth chords. Harmonization of a given part. Simple improvisation and transposition. Writing, identification, and playing of cadences in major and minor keys.

12. Musical Science II 3 hours

A continuation of Music 11. Non-chord tones. The dominant seventh chord and its inversions. Six-four chords. Harmonic rhythm. Binary, ternary, and through-composed forms. Secondary triads. Sequence. Secondary dominants. Modulation.

13. Principles of Conducting: Theory and Practice 2 hours

Fundamentals of score-reading and baton technique.

21. Musical Science III 3 hours

A continuation of Music 12. Diatonic seventh chords and their inversions. Diminished triads and diminished seventh chords and their resolutions. Irregular resolutions. The Baroque prelude, chorale prelude, and variation forms. Fugue. Neapolitan and augmented sixth chords.

22. Musical Science IV 3 hours

A continuation of Music 21. Sonata-allegro form. Ninth, eleventh, and thirteenth chords. Chords of the raised supertonic and raised sub-median. Advanced chromaticism. Impressionism. Twentieth-century melody, harmony, and tonality schemes.

25. Music Masterpieces 2 hours

A survey course for music majors as well as non-music majors.

28. Keyboard Methods For Elementary Teachers 2 hours

Methods of presenting music to children in the elementary school. Curriculum development, individual diagnosis, remedial teaching, and evaluation.

29. Choral Methods For Elementary Teachers 2 hours

Methods of presenting music to children in the elementary school. Curriculum development, individual diagnosis, remedial teaching, and evaluation.

33. Music History and Literature I 2 hours (3 hours, summer)

A survey of music history and literature from Antiquity to the Early Baroque.

34. Music History and Literature II 2 hours

A survey of music history and literature from the Mature Baroque to Late Romantic.

37. Eighteenth Century Counterpoint 3 hours (2 hours, summer)

A course in eighteenth-century counterpoint to three parts. Analysis and composition.

38. Techniques 2 hours

- a. Brass
- b. Woodwinds
- c. Strings
- d. Percussion

41. Arranging 2 hours

- a. Instrumental (band and orchestra)
- b. Choral

42. Composition 3 hours (2 hours, summer)

Prerequisite: Music 21.

Private instruction available by arrangement with the instructor. May be taken more than once.

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- 43. Music History and Literature III** **2 hours**
A survey of music history and literature from Late Romantic into twentieth century.

- 44. Music History and Literature IV** **2 hours**
A survey of contemporary music history and literature.

- 45. Advanced Keyboard Harmony and Extemporization** **3 hours**

- 46. Advanced Conducting: Choral and Instrumental** **3 hours**
Further development of score-reading and baton technique. Interpretation. Tone, intonation, balance, diction, phrasing. The psychology of conducting. Actual conducting experience under critical supervision.
Prerequisite: Music 13.

- 48. Form and Analysis** **3 hours**
An extended and concentrated study of larger musical forms, including selected works from the WELL-TEMPERED CLAVIER by Bach, the keyboard sonatas by Beethoven, and the orchestral, chamber music, and keyboard literature from the Classical Period through the Contemporary Period.
Prerequisite: Music 22.

- 51. Honors Seminar in Music** **3 hours**

- 55. Independent Study in Music** **1-3 hours**

COURSES IN APPLIED MUSIC*
Private Instruction

10. Lower Level

- | | |
|------------------------|------------------------------|
| 30. Upper Level | Variable credit hours |
| A — Voice | U — Trumpet |
| B — Piano | V — Trombone |
| C — Organ | W — Mellophone |
| J — Contra Bass | X — Baritone |
| K — Flute | Y — Tuba |
| L — Piccolo | Z — Percussion |
| M — Clarinet | |

Private instruction is recorded in this manner:

Letter — Designation of instrument or voice

1st digit — level of instruction

2nd digit — number of credit hours

E.g., A12 means 2 credit hours of lower level voice

- 15. Class Piano** **1 hour**

- 20-40. Instruction Ensemble: brass, woodwind, percussion**
Credit for Music 20 and 40, instruction ensembles, is available only to those taking private lessons. Participation is also available without credit.

- 20. Lower Level Instruction Ensemble** **1 hour**

- 40. Upper Level Instruction Ensemble** **1 hour**

- 50. Senior Recital** **1 hour**
No more than 20 credit hours of applied music (exclusive of techniques classes) may be applied toward fulfilling graduation requirements.

COURSES IN CHURCH MUSIC THEORY AND IN LITURGY

- 31. Liturgical Legislation and Application** **2 hours**
 Emphasis on most recent legislation. Includes bibliography, repertoire, and elementary conducting.
- 32. Gregorian Chant** **3 hours**
 The chant in the Roman Rite: history, nature, development, rhythm, interpretation, psalmody, modality, composition and form, paleography.
- 36. Sixteenth-Century Counterpoint** **3 hours**
 A course in sixteenth-century counterpoint to three parts.
- 47. Theology of The Liturgy** **3 hours**
 History of salvation; liturgical spirituality; elements of the liturgy.
- 49. Theory Integration** **2 hours**
 Review and integration of theory, figured bass, harmonization of melodies, transposition, improvisation, etc.
Prerequisite: Music 22.

COURSES IN CHURCH APPLIED MUSIC

Cf. Courses in applied music.

Department of Philosophy

The Department of Philosophy believes that ideas are among the important instruments by which men achieve freedom and self-determination. Even more, the department believes that without serious and sustained reflection upon the formation and application of ideas, a liberal education fails in one of its aims: to free man's critical faculties. Such freedom is an essential step along the path to wisdom, the capacity to judge the significance of human experience. Acknowledging the existence and importance of a higher wisdom, a truth that saves, the department also acknowledges its special responsibility in a Christian college to distinguish between philosophical and theological wisdom and to bring the best of human thought to bear upon man's ultimate concern.

Courses in the Department of Philosophy are designed to acquaint the student with both the history of thought and the set of problems which the search for wisdom now poses for humankind. Special attention is given to the philosophical foundations of the human disciplines: psychology, sociology, law, history, politics and religion.

A major in Philosophy is one of the traditional preparations for entrance into a school of theology or law. A major in Philosophy is also appropriate undergraduate preparation for graduate work in the behavioral sciences, though the student should consult the catalogue of the various graduate schools he is interested in attending.

Departmental Requirements:

1. A student majoring in philosophy must show credit in two of the following courses: Phil. 11, 12, 21 or 22. It is strongly recommended that these hours be taken in courses appropriate to his core curriculum.
2. In addition, it is strongly recommended that a student majoring in philosophy who intends to do graduate work in philosophy show twelve hours of credit in a foreign

*The Department may determine an equivalency for any portion of an applied music requirement.

language. A "pass" grade is sufficient to fulfill this requirement. (For difference in degree granted, see "foreign languages" under academic policies.)

3. A major sequence in philosophy consists of 36 hours including two courses in history of philosophy and one in metaphysics. A minor sequence in philosophy consists of 18 hours.

Suggested Program:

1. Students majoring in philosophy will take Core 1 through 4, and at least two philosophy electives. Recommended electives are courses in a foreign language. Other helpful electives are courses in the areas of social studies, behavioral sciences, or communication arts.

2. Students should see their faculty advisor prior to scheduling their junior and senior courses.

COURSES IN PHILOSOPHY**11. Introductory Logic****3 hours**

This course investigates the forms of valid reasoning in the classical as well as in the modern symbolic systems of logic. The aim of the course is both theoretical and practical. It aims at developing the student's ability to think clearly and rigorously and to understand the rules for such thinking. Taught every fall term.

12. Introduction to Philosophy**3 hours**

This first course in philosophy will attempt to show the beginner what a philosopher does, the origin, nature and value of the questions he asks, the methods he employs and difference between philosophy and other disciplines. The student will survey in a general way the areas to be covered in more detail in the other courses offered by the department. Taught every winter term.

21. The Greek Universe*3 hours**

A study of the formation of a world-view underlying much of Western thought. Special emphasis is placed on the systematization of Greek thought by Plato, Aristotle, and Plotinus. This course develops ideas implicated in Core 3 and, because of the element of continuity between Greek and Christian thought, leads directly to Philosophy 22.

22. The Medieval Universe**3 hours**

A study of the contributions of Christianity to Philosophy, especially the significant difference in outlook on God, man, and the world which occurred when the notion of creation met with Greek thought. The creation and destruction of an integrated Christian wisdom is traced from Augustine to Ockham. This course develops ideas implicated in Core 4. Historically, it leads directly to Philosophy 31; it also provides background for Philosophy 45.

31. Modern Philosophy**3 hours**

A study of the period from 1600 to 1900 when the distinction between philosophy and the specialized disciplines arose. Special emphasis is placed upon Descartes, Locke (or Hume), Kant, Hegel and reactions to Hegelianism. This course provides important background material for Philosophy 37, 38, 41, 42, 47 and 49. Historically, it leads to Philosophy 32.

*Most courses numbered 21 or higher will be offered on a two, three, or four semester cycle. The student should consult with the departmental chairman in planning course sequence.

32. Contemporary Thought

3 hours

A survey of the principal currents of ideas in the Western world since 1900. The course will inquire not only into the strictly philosophical schools of thought (Pragmatism, Marxism, Positivism, Existentialism and Linguistic Analysis), but also into currents of thought which overflow the boundaries of Philosophy. Correlations between philosophies and the politics, scientific theories, art and literature of the times will be studied. Especially recommended to English and History majors.

37. Philosophy and Behavioral Science (Psychology 37 and Sociology 37).

3 hours

A study of modern man's hope and discouragement in scientifically investigating his own doings and aspirations. Special emphasis is placed upon the peculiar founding role which philosophy has to the behavioral sciences and the continuing critical relation between them. This course leads directly to the wider problems posed in Philosophy 39.

38. Problems of Knowing: Epistemology

3 hours

A study of how to judge man's claim to know the truth. In general, what can be claimed about the nature and the scope of human knowledge? In particular, what is the truth value of each of the various sorts of human knowledge—e.g., as expressed in moral and aesthetic claims? This course attempts a radical synthesis of the methods of knowing implicit in the Core program.

39. Problems of Acting: Ethics

3 hours

An inquiry into the nature, the problems and the method of ethics. Special attention is given to aiding the student to clarify to himself his own lived values.

40. Metaphysics

3 hours

A search for the ultimate explanation of man and the world in which he lives; of the changing, acting and existing that he experiences in himself and in the world. Special emphasis is placed upon the relevance of metaphysical conclusions to human living. **This course is required of all philosophy majors.**

41. Traditional Political Philosophy (Political Science 41)

3 hours

A study of the perennial problems of political and social life, centering on law, justice, equality, the common good, and power, as seen by the pre-Socratics, Plato, Aristotle, the Stoics, St. Augustine, St. Thomas Aquinas, and including modern restatements by Christian thinkers and others. Taught every fall term.

42. Modern Political Philosophy (Political Science 42)

3 hours

A study of modern political ideas as expressed in rationalism, empiricism, Marxism, fascism, socialism and the welfare state. Taught every winter term.

45. Philosophy of Religion

3 hours

A study of man's relations and responses to the divine. It seeks to uncover and explicate man's response to his recognition that there is a reality beyond the physical order upon whom he is dependent and in whom he places his trust. This course parallels Core 9.

47. Philosophy of Law (Political Science 47)

3 hours

An analysis and evaluation of the principal theories on the nature and the purpose of law currently taught in the great law schools of the United States: natural law, legal positivism, and legal realism or sociological jurisprudence. Through critical discussion of these theories and some of their practical and contemporary consequences, the student is encouraged to formulate his own philosophy of law. Especially recommended to pre-law and political science students.

49. Philosophy of History (History 49)

3 hours

A study of the various interpretations of history both as the course of human events and as a discipline dealing with those events. It investigates the nature and validity of the methods and results of historical knowledge. It inquires into the patterns, mechanisms and purposes of the course of man in time.

50. Great Issues In Philosophy

3 hours

An advanced study of themes or persons permanently affecting the direction of philosophic thought. This course's content is determined by the interests of the members of the department, the general faculty and the students. Specifics are announced as the course is scheduled.

51. Honors Seminar In Philosophy

3 hours

55. Independent Study

1-3 hours

Department of Physical Education (men only)

The Department of Physical Education is designed to offer the student a knowledge of physical education in its theoretical and practical phases. Courses in the history and principles of physical education present the background upon which the profession developed and the standards which must be maintained. Other courses are offered to acquaint the student with the professional skills, techniques, and competencies that will be needed in the exercise of teaching and/or coaching duties.

Physical education majors are prepared to enter the coaching field, the teaching of health and physical education and to work in recreational activities and centers.

Students who plan to qualify for the teacher's certificate in Health and Physical Education must consult the Director of Student Teaching.

Departmental Requirements:

1. The requirements for a major sequence in physical education comprise thirty-six hours including the following: Physical Education 11, 34, 46, and Biology 22. The requirements for a minor are eighteen hours including the following: Physical Education 11, 46, and Biology 22. Credit in Biology 22 is applicable to the major and to the minor in Physical Education.

Participation Requirements:

1. All Physical Education majors must earn a total of 12 points for graduation.
2. Points may be accumulated as follows:
 - 3 — for participation in a varsity sport as a player
 - 3 — for participation as a trainer, manager or captain
 - 3 — for participation as an intramural assistant
 - 5 — for participation as a student coach
 - 3-5 — for participation off campus in a supervised physical educational, recreational, or health program.
3. Any student entering Saint Joseph's from a junior college or transferring from another 4-year college, will be given equivalent credit for his previous participation.

Suggested Program:

1. Freshman students majoring in physical education will take: Core 1-2, Electives recommended are Physical Education 11, 16, 22, 25 and the minor area.
2. Electives for the sophomore year are: Biology 11, 22; Education 30, 31; Physical Education 27, 28, 30; Minor area.
3. Students should consult their faculty advisor prior to scheduling courses in their junior and senior years.

Teacher Education Requirements:

Teaching Major in Physical Education: Core; Professional Education block; First Aid; Community Health; History and Principles of Physical Education; Human Anatomy and Physiology; Kinesiology; Org. & Adm. of Health Education: Org. & Adm. of Physical Education; Measurement and Evaluation; Public Recreation and Camping; Activities for Elementary Grades; Gymnastics; 10 hours from minor sports and and coaching courses.

Teaching Minor in Physical Education: History and Principles of Physical Education; Org. & Adm. of the Physical Education Program; Human Anatomy and Physiology; Gymnastics; Activities for Elementary Grades; 10 hours from minor sports and coaching courses.

COURSES IN PHYSICAL EDUCATION

11. History and Principles of Physical Education 3 hours

A basic course presenting a critical evaluation of social, economic, and political forces associated with the development of physical education throughout its history, and secondly, introducing the student to the fundamental facts and principles associated with Motivation, Program, Instruction, Supervision, Administration, and Evaluation in the field of physical education.

16. First Aid and Safety Education 2 hours

A consideration of the essential elements in the theory and practice of safety in the school, in the home, in occupational activities and on the highway. Instruction in the administration of first aid and civil defense. Two lectures and one laboratory period per week.

22. Gymnastics and Rhythmic Exercises 2 hours

Elements of individual and natural gymnastics; corrective exercises, calisthenics, class drill, tumbling and apparatus; fundamentals of rhythm as applied to games, plays, and songs. Two lectures and one laboratory period per week.

25. Personal and Community Health 3 hours

Personal health and the prevention of disease in the family and community; relation of sanitation and disease control to community health; communicable diseases. Three lecture periods each week.

27-28. Techniques of Minor Sports 4 hours

Particular emphasis is given to the **teaching techniques** most effective in the area of minor sports, to the knowledge of the rules of each sport, to the selection and care of the equipment necessary for each sport, and instruction in the basic fundamentals of the activity in each sport. The first semester (27) will include the sports of golf, volleyball, softball, Isometric and Isotonic conditioning, and physical fitness. The second semester (28) will include the sports of bowling, tennis, soccer, speedball and badminton.

30. Public Recreation and Camp Activities 3 hours

Theory and practice of playground supervision and camp leadership. Techniques proper to arts and crafts, aquatics, outdoor recreational activities, nature study, and special programs are included. Observation of camp facilities and recreational programs.

31. Recreation Field Experience 3 hours

A three-week internship in recreational therapy. The student will participate in an activity therapy program under the direction of the institutional coordinator of activity therapy. The field experience is divided into three areas; observation, individual and group recreation therapy, and a written synopsis of the experience.

32. Coaching of Baseball 2 hours

Theory and principles of the fundamentals of baseball. A study of the history, rules, strategy, organization of practice, individual and team conditioning, administration of program and officiating. Two lectures and one laboratory period per week.

(Juniors and Seniors only.)

34. Kinesiology 3 hours

Application of facts and principles of anatomy, physiology and the mechanics of human motion to the teaching of sports exercise, dance and the activities of everyday living.

Prerequisite: Biology 22.

35. Measurements In Health and Physical Education 3 hours

A study of measurement and evaluation as applied to health, physical education, and recreation. Principles of test construction, types and characteristics of individual and group tests, application of such tests to school problems and evaluation of results. A study of statistics as they apply to evaluation of results of measurement.

38. Principles and Techniques of Physical Therapy 2 hours

This course is designed to study the various special fields of physical rehabilitation with special emphasis upon the use of such agents as exercise, massage, heat, water, electricity and various forms of radiation. The course emphasizes the correct use of personal and field equipment, support procedures and therapeutic aids. Laboratory work includes practical techniques in the clinical use of supporting apparatus and physiotherapy. Two lectures; one laboratory period per week.

41. Activities for Elementary Grades 2 hours

An analysis of dramatic play, games, rhythms, self-testing activities, playground procedures, and safety measures used in a modern program in the area. Principles of selection and evaluation of activities and teaching methods are developed.

42. Coaching of Track and Field Events 2 hours

Theories and principles of the fundamentals involved in track and field events. A study of the rules, history, organization of practice, individual and team conditioning, administration of program, facility layout, program of maintenance, and officiating. Two lectures and one laboratory period each week.

(Juniors and Seniors only.)

43. Coaching of Football 3 hours

Theory and practice of the fundamentals of football. A study of the history, rules, strategy, styles of attack and defense, organization of practice, individual and team conditioning, officiating and other coaching problems involved in this sport. Three lectures and one laboratory period per week.

45. Organization and Administration of Health Education 3 hours

The principles, materials and problems of health education. Relation of the school health program to other agencies. Instruction in the proper use of federal, state, and commercial publications and aids to health education. A study of health, examination, reports, remedial measures, and state health regulations.

46. The Organization and Administration of the Physical Education Program 3 hours

A study of the foundations and principles of program, of instruction and supervision. Included is a study of the National Association of State High School Athletic Association with an emphasis upon rules of eligibility. Consideration is given to the grouping of students, records, of participation and progress, management of facilities, finance, and public relations.

48. Coaching of Basketball

3 hours

Theory and practice of the fundamentals of basketball. A study of the history, rules, strategy, styles of play, organization of practice, individual and team conditioning, officiating and other coaching problems connected with this sport. Three lectures and one laboratory period per week.

(Juniors and Seniors only.)

50. Pro Seminar

3 hours

An introduction, by means of directed reading and individual projects to the research methods applied to Health, Physical Education, and Recreation. A series of lectures, discussion and critiques on physical education and related areas.

51. Honors Seminar In Physical Education

3 hours

55. Independent Study

1-3 hours

Department of Physics

The physics courses offered are designed to help the student attain: 1) An understanding and appreciation of the fundamental laws of nature. 2) Adequate preparation for work in graduate and professional schools, and secondary teaching. 3) Facility in the use of physics as a tool in engineering and sciences such as biology, geology, and chemistry.

Laboratory fees. Physics 21, 22, 24, 25, — each \$10.00. Physics 31 and 46 — each \$15.00.

Departmental Requirements:

1) The requirement for a major sequence in physics is 36 hours including Physics 31, 34, 35, 36, 37, 38, and 46. Requirements outside of the department include: Computer Science 10; Math 35 and 36; and eight hours of chemistry.

The requirement for a minor sequence in physics is 18 hours in physics. Any physics course may be taken with the consent of the instructor.

2) The requirements for a group major involving physics and mathematics comprises at least 28 hours of physics courses, including Physics 38 and 21 hours of mathematics. The remaining 3 hours may be chosen from the mathematics or physics offerings.

COURSES IN PHYSICS

Physics I.

3 hours

This course in theoretical as well as practical physics is designed for students intending to teach in elementary schools. It does not count towards the physics major or minor. Two lectures and one two-hour laboratory period per week.

21-22. College Physics

8 hours

This course introduces the student to the fundamental principles of mechanics, heat, sound, light, electricity. Three lectures and one three-hour laboratory period each week. Prerequisite: Mathematics 15.

24. Mechanics and Heat

5 hours

This course is directed toward equipping the student with the scientific approach and knowledge of fundamental laws in physics, the basic concepts and laws of vectors, equilibrium, rectilinear and rotational motion, Newton's laws, work and energy, impulse, and momentum, elasticity, harmonic motion, hydrostatics and hydrodynamics. The laws of continuum mechanics and heat, including the first and second laws of thermodynamics, thermal properties of solids, liquids, and gases, wave motion, vibrating bodies, acoustical phenomena are treated. Four lectures and one three-hour laboratory period each week.

Prerequisites: Mathematics 15 and Computer Science 10.

25. Optics, Electricity and Atomic Structure 5 hours

This course is a continuation of Physics 24 and covers the propagation of light, reflection and refraction, and polarization, fundamentals of the electric field, potential capacitance, DC circuits electrochemistry and thermoelectricity, the magnetic field, DC instruments, induced electromotive force, inductance and capacitance, alternating currents, electronics, optical spectra and atomic structure, and nuclear reactions. Four lectures and one three-hour laboratory period each week.

Prerequisites: Physics 24, Mathematics 25, 26.

31. Electricity and Magnetism 4 hours

This course reviews the theory and measurements of resistance, electromotive force, potentials, current, self and mutual induction, magnetic fields, Ohm's law, networks, and ballistic galvanometer. Three lectures and one three-hour laboratory period per week.

Prerequisite: Physics 22 or 25.

33. Statics 3 hours

This course treats the fundamental principles of statics, forces, couples, systems of force, addition and subtraction of forces, equilibrium of system, stresses and strains, moment of inertia. Three lectures each week.

Prerequisite: Physics 22 or 25.

34. Dynamics 3 hours

This lecture course deals with translation, rotation, plane motion, motion of particles and systems of particles, momentum and periodic motion and Lagrange's Equation of Motion. Three lectures each week.

Prerequisite: Physics 33.

35. Optics and Electromagnetic Theory 3 hours

This course describes the basic properties of light: geometrical optics, interference, finite velocity, polarization, and quantum phenomena. The connection between the theory of high frequency electromagnetic waves and that of light is demonstrated in microwave experiments. Two lectures and one three-hour laboratory per week.

Prerequisite: Physics 22 or 25.

36-37. Modern Physics and Modern Physics Laboratory 6 hours (2 semester sequence — 3 hours each)

This two semester course in physics emphasizes recent developments; wave motion, electromagnetic radiation, kinetic theory of gases, specific heats and heat of radiation, photoelectric effect, rays, Bohr theory of spectra, quantum mechanics, nuclear physics, cosmic rays and relativity. Three lectures per week. Included will be field trips to local laboratories.

Prerequisites: Physics 22 or 25, and Math 26.

38. Introduction To Quantum Mechanics and Atomic Physics 4 hours

This course covers an introduction to wave mechanics, atomic structure, radiation and radiative transitions, atomic spectroscopy, X-ray spectra, molecular binding and molecular structure, including selected experiments.

Corequisites: Physics 36, Math 36.

39. Thermo-Dynamics and Kinetic Theory 3 hours

This course surveys the fundamental concepts of heat, theory and practice of heat measurements, first and second laws of thermodynamics, with applications, kinetic theory of gases, with application to the theory of specific heats.

Prerequisite: Physics 22 or 25.

45. Radioactivity Nuclear Physics and Particle Physics 3 hours

This course reviews sources, detection, and laws of radioactivity, use of activity in dating rocks, brief survey of systematics of nuclei and elementary particles, structure of stable nuclei, interaction of nuclear radiation with matter, nuclear reactions, particle accelerators, nuclear instruments, and nuclear reactors; included will be selected experiments and field trips to local laboratories.

Prerequisite: Physics 22 or 25.

46. Electronics 3 hours

This course specifies the principles of the vacuum tube and the transistor and their functions in electronic circuits. Two lectures and one three-hour laboratory period each week.

Prerequisite: Physics 22 or 25.

48. Radiobiology 3 hours

This course reviews the effect of radiation of mammalian systems, physical transport of X, gamma, neutron and beta rays through animal and consequent effect on bone marrow, intestines and central nervous systems.

Prerequisite: consent of instructor.

51. Honors Seminar in Physics 3 hours**55 Independent Study 1-3 hours**

Department of Political Science

The Political Science Department offers students an opportunity to gain a systematic understanding of the role of government and political behavior in human societies of the past and present. Such understanding is an important element of a modern college education and contributes significantly to professional and civic judgment.

Departmental Requirements:

1. Either Political Science 21 or 22 is required for other courses in political science.
2. The requirement for a major sequence in political science is 36 hours. The requirements for a minor sequence are 18.

Suggested Program:

1. Freshman students majoring in political science will take: Core 1-2; Political Science 21-22; History 23-24; electives should be taken from the areas of economics or sociology.

2. History 37 and 42, Economics 37 and 40, Sociology 31 and 38, and Theology 48 may be counted towards the 36 hours required for a major in Political Science in any combination and up to a maximum of nine hours.

3. Students intending to enter graduate school or the Foreign Service are urged to take at least six hours in a foreign language. Prospective graduate students are strongly encouraged also to take Sociology 31 and 38.

Teacher Education Requirements:

Teaching major in social studies: Core, 45 hours; professional education block, 18 hours; 3 hours World history; 6 hours American history; 6 hours economics; 3 hours sociology; 9 hours geography (Geol. 11, 24, 26); and the political science major.

Teaching minor in political science: 15 hours of political science.

COURSES IN POLITICAL SCIENCE**21. American Government 3 hours**

A study of the formal and informal institutions of American national government and politics: The Constitution, the Presidency, Congress, the federal court system, political parties, pressure groups, public opinion, recent foreign policy, the federal bureaucracy, voting behavior. Attention is also given to current problems and issues.

22. Comparative Government 3 hours

The constitutional forms and methods utilized by four major foreign powers — Great Britain, France, Germany, and the U.S.S.R. Their elements of strength and weakness are compared with the U.S. system.

33. Political Parties and Pressure Groups 3 hours

The democratic process in the U.S. is studied as a function of the two major parties and the major economic and social pressure groups.

35. Constitutional Law — The Bill of Rights 3 hours

An examination of Supreme Court decisions concerned with the definition of American rights in the areas of freedom of speech, press, assembly, association, and religion; church-state relations; racial discrimination; political radicalism and subversion; procedures in criminal prosecution; military tribunals.

36. Constitutional Law — The American Community 3 hours

An examination of Supreme Court decisions concerned with the separation of powers, federalism, the regulation of commerce contracts, taxing and spending and the state police power, including some of the legal problems of urban redevelopment.

37. State and Local Government 3 hours

A study of political systems at the state and local levels in the United States, emphasizing institutional evolution and problems along with the special pre-occupations of metropolitan areas.

40. Public Finance (Econ.40) 3 hours

A study of the principles of finance in government. Topics to be considered include public revenues and expenditures, taxation, public debt, government budgeting and fiscal policy.

41. Traditional Political Philosophy 3 hours

The perennial problems of political and social life, centering on law, justice, equality, the common good, and power, as seen by the pre-Socratics, Plato, Aristotle, the Stoics, St. Augustine, St. Thomas Aquinas, and including modern restatements by Christian thinkers and others.

42. Modern Political Philosophy 3 hours

Modern political ideas as expressed in rationalism, empiricism, Marxism, fascism, socialism, and the welfare state.

43. International Law and Organization 3 hours

An exploration of the possibilities of control of international conflicts through law and organizations. Analysis of prerequisites for political integration of the world. Evolution of international law. The League of Nations and United Nations. Regional association as possible transitional forms of supranational organizations. Disarmament.

- 44. International Relations** **3 hours**
 An examination of the twentieth-century context of international relations: nationalism, imperialism, power politics, the evolution of supranational forms of political organizations, and the foreign policies of the major powers. (May be counted towards a major in History.)
- 45. American Political Thought** **3 hours**
 The major sources of the American intellectual tradition in politics, including the Puritans, Jefferson, the Federalist papers, Hamilton, Lincoln, the New Nationalism philosophy of Theodore Roosevelt, the New Freedom philosophy of Woodrow Wilson, and the New Deal philosophy of Franklin Roosevelt.
- 46. Political Behavior** **3 hours**
 Approaches to the empirical or scientific study of politics including systems theory, structural-functional analysis, voting studies, and public opinion research.
- 50. Seminar In Political Science** **3 hours**
 Close examination of some significant contemporary political problem. The topic varies from year to year, but in every case the emphasis is upon independent research in depth and under supervision as the basis for individual contributions made by the students in the context of a seminar.
- 51. Honors Seminar In Political Science** **3 hours**
- 55. Independent Study** **1-3 hours**

Department of Psychology

The Department of Psychology strives in its course offerings to awaken the student to a study of himself and other animate beings. Psychology studies how people perceive and think and learn, and why they act as they do. It is the science that studies human behavior.

A further purpose of the Department is to qualify the student for entrance into graduate schools of psychology, social work, sociology, and other related fields.

Departmental Requirements:

1. Psychology 10 is a prerequisite for all other psychology courses except those marked "no prerequisite."
2. The requirements for a *Major* sequence in psychology are 36 hours. The following specific courses must be taken: Psychology 8, 10, 33, 38, a lab course (39 or 40) and Biology 11 and 22. Biology 11 and 22 may be counted toward the 36 required hours in psychology.
3. Any three of the following courses (a maximum of nine hours) may be counted toward the 36 hours required in the psychology program: Education 32, Biology 38 and 40, Mathematics 25, 26, and 38, Computer Science 10 and 24, or any nine hours in Sociology. (See the suggested Social Work Program below.)
4. The requirements for a *Minor* sequence in psychology are any 18 hours in psychology courses, to include Psych 10.

Suggested Program:

1. The following sequence of courses is recommended. Courses not specified may be taken at the student's convenience.
 Freshman year: Biology 11 and 22; Psychology 8 and 10.
 Sophomore year: Psychology 31, 34, 35, and 38.
 Junior Year: Psychology 32, 33, and 39.
 Senior year: Psychology 37, 40, 44, 47.

2. Minors and electives for Psychology majors might be taken in sociology, biology, mathematics, and computer science, as well as philosophy, theology, and literature.

3. Students planning on graduate school in psychology should consider taking two years (or the equivalent) of French, German, or Spanish, and basic courses in computer science.

Social Work Program:

For the student who plans on a career in the field of social work, a combination of psychology and sociology courses is recommended. The most obvious combination would be to major in one area and minor in the other. Another possibility would be to count nine hours in sociology toward a major in psychology. The following courses are suggested as possibilities: first, Sociology 21; then Sociology 30, 33, 34, 45, 46. Also nine hours in Psychology courses may be counted toward a Sociology major. The following are suggested: first Psychology 10, then Psychology 32, 34, 35 and 40. Either alternative (a psychology or a sociology major) would be good preparation for graduate school or for immediate employment in an area of social work.

Behavioral Science Senior Year Internship

Psychology and Sociology majors may apply for a senior year internship at the Merrill-Palmer Institute in Detroit. A maximum of three students will be accepted each year. The program involves an active study of the child and his family in urban areas. Classroom study and work in the field are combined. More information about the program can be obtained by writing to the Merrill-Palmer Institute, 71 E. Ferry Avenue, Detroit, Michigan, 48202.

A maximum of 27 hours credit in Psychology and Sociology may be granted toward graduation at Saint Joseph's College. Each student's program will be evaluated individually by the departmental chairmen. Senior year Core requirements may be met by taking Core 9 in the junior year and Core 10 in the Spring Session after the junior year. All specific Psychology and Sociology Departments course requirements for the major and minor are still applicable.

Teacher Education Requirements:

The State of Indiana requires completion of the elementary education program or of a teaching major for certification. No teaching major is offered in Psychology. The teaching minor in psychology consists of General Psychology, Tests and Measurements, Growth and Development, Social Psychology, Experimental Psychology, Elementary Statistics, Theories of Personality, and courses in the area of Applied Psychology, to total 24 hours.

COURSES IN PSYCHOLOGY

8. Mathematics For Behavioral Science

3 hours

This course is designed specifically for students majoring in a behavioral science. It is intended as a preparation for the course in elementary statistics required by the behavioral science departments. Topics include: set theory, symbolic logic, relations and functions, sequences and series, combinatorial analysis, and an introduction to the basic concepts of probability and discrete random variables.

10. General Psychology

3 hours

This course provides a general survey of the whole field of Psychology. Fundamental concepts of physiological, experimental, motivational, analytical, and abnormal, as well as of psychological testing and the psychology of learning are discussed.

31. Human Growth and Development (Education 31.)

2 hours

A study of the psychological characteristics of child and adolescent development with special attention given to physical, emotional, social, intellectual and religious

behavior. Development is viewed genetically with emphasis placed on the normality of behavior characterizing the various stages of childhood and adolescence.

No prerequisite.

32. The Individual and Society; Social Psychology 3 hours

This course concerns itself with the effects of interactions on the individual. The material will be reviewed from an interactionist framework, with the contention that human behavior and social order are products of communication.

No prerequisite.

33. Measurement and Evaluation In Psychology And Education (Education 33.) 2 hours

History of the testing movement; principles of test construction; qualities of the evaluation of teacher and standardized tests; a study of the various types of individual and group tests; basic statistical concepts, and the evaluation, interpretation, and application of test results; practice in taking and giving tests in actual educational and psychological situations.

34. Theories of Personality 3 hours

The contributions of Freud, Jung, Adler, Fromm, Murray, Rogers, Skinner and others are discussed in detail. Particular emphasis is placed upon application of these theories to the normal person as an aid to better self-knowledge and self-realization.

No prerequisite.

35. Abnormal Psychology 3 hours

The dynamics of abnormal behavior are studied as the basis for detailed consideration of the neurotic personality, psychosomatic disorders, and behavior deviations. Further topics include the effects of brain injuries and the major psychoses, especially schizophrenia. Considerable attention is given to the theories and methods of psychotherapy.

35.1. Abnormal Psychology Practicum I 1 hour

Weekly two-hour sessions at Dr. Norman M. Beatty Memorial Hospital, Westville, Indiana, or Longcliff Hospital, Logansport, Indiana, working with the psychiatric patients under supervision of the professional staff.

Prerequisite: Psychology 35. They may be taken together.

35.2. Abnormal Psychology Practicum II 1 hour

Weekly two-hour sessions in a child guidance clinic or in a special education class under the close supervision of professional persons. Additional practice may be taken in appropriate psychological settings.

Prerequisite: Psychology 35.1.

36. Personality Problems and Mental Health 3 hours

A study of the psychological evidence upon which the point of view, principles, and techniques of mental hygiene are based; particular application to the individual as an aid to increased self-knowledge and self-realization.

No prerequisite.

37. Philosophy of The Behavioral Sciences (Philosophy 37) 3 hours

A study of modern man's hope and discouragement in scientifically investigating his own doings and aspirations. Special emphasis is placed upon the peculiar founding role which philosophy has to the behavioral sciences and the continuing critical relation between them.

38. Elementary Statistics 3 hours

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measure of location, measures of variation, probability and decision-making, problems of estimation

and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis is on the interpretation and use of statistical analysis in the social sciences.

Prerequisite: Mathematics 8.

39. Physiological Psychology 4 hours

This course is concerned primarily with the biological basis of behavior with particular emphasis on the peripheral and central nervous system. The autonomic nervous system and the function of the endocrine system and their relationship to basic personality and emotions are treated. In the laboratory, emphasis is placed upon dissection of the brain and the physiological indices of emotion. (Psychology majors only)

Prerequisite: Psychology 38.

40. Experimental Psychology 4 hours

This course treats in detail the functioning of the external and internal senses, reaction time, and various aspects of learning. In the laboratory special emphasis is placed on the classical experiments and methods for studying these functions. (Psychology majors only)

Prerequisite: Psychology 38.

44. Studies In Applied Psychology 3 hours

Topic may be counselling and guidance, introduction to social work, industrial psychology, or any similar applied area.

47. Systems and Theories In Psychology 3 hours

A comprehensive and synthesizing course for psychology seniors. Emphasis is on contemporary schools of psychology and the science of statistics. Credit may be obtained by exam under an individual study program prepared by the department.

51. Honors Seminar

55. Independent Study In Psychology 3 hours

A flexibly structured course to allow the advanced student to pursue individual study in a specific area under the supervision of a member of the department. The course is available every semester but may be taken only with written permission from a member of the department.

Department of Sociology

The department offers a major and minor sequence, each of which is intended to introduce the student to scientific and humanistic approaches to the understanding of human social behavior.

Majors in Sociology are prepared for admission to graduate school in Sociology and related disciplines. Majors and minors will find that a sociological orientation is useful in teaching, industrial and personnel management in-training programs, social work, and other careers where social science awareness is appropriate.

Departmental Requirements:

1. Sociology 8 and 21 are prerequisites for Sociology 31, 38, 43, 49, and 50.
2. The requirements for a major is 36 hours, including Soc. 8, 21, 31, 38, and 43. Computer Science 24 may be counted in the 36 hour total.
3. Nine hours of psychology may also be counted towards a major. The following are suggested: Psychology 10, 32, 34, and 35. See the suggested social work program below.
4. The requirement for a minor is 18 hours. While Sociology 21 should be taken as a prerequisite for advanced courses, any 18 hours in Sociology will be accepted.

5. Computer 10 and 24 and twelve hours in a foreign language are recommended for students contemplating graduate work.

6. A Sociology major may choose any minor field but if the student is interested in pursuing an advanced professional or academic degree, then a minor in a related behavioral science, computer science, or mathematics is recommended.

Suggested Program:

1. Sociology 8, 21, and 38 should be completed before the second semester of the Sophomore year.

2. Students electing computer science and a foreign language should complete these courses in the Freshman and Sophomore years.

3. As soon as a student decides on a major in Sociology, he should consult with a member of the department and register a tentative plan of study.

Teacher Education Requirements: for those wishing to teach in secondary schools, the area major in social studies is recommended. The following courses are required: core, 45 semester hours; professional education block, 18 semester hours; 9 hours geography (Geol 11, 24, 26); 3 hours world history; 6 hours American history; 6 hours economics; 3 hours political science and the major in sociology.

Teaching minor in sociology: 15 hours of sociology.

Social Work Program:

The student who plans a career in the field of social work should combine a major and minor in Sociology and Psychology. If the student majors in Sociology he should complete the required courses and include in his major Sociology 30, 33, 34, 41, 45, and 46. Any eighteen hours of psychology, including psychology 10, completes the minor.

COURSES IN SOCIOLOGY

8. Mathematics For Behavioral Science 3 hours

This course is designed specifically for students majoring in a behavioral science. It is intended as a preparation for the course in elementary statistics required by the behavioral science departments. Topics include: set theory, symbolic logic, relations and functions, sequences and series, combinatorial analysis, and an introduction to the basic concepts of probability and discrete random variables.

Required for all Sociology majors. Prerequisite for Sociology 38.

21. General Sociology 3 hours

An introduction to the conceptual framework of Sociology and the scientific approach to social phenomena.

30. General Anthropology 3 hours

An introduction to the comparative study of mankind. His biological evolution, the archaeological record, his use of language and his development of social systems and culture will be considered.

31. Research Methods 3 hours

An introduction to the qualitative and quantitative methods employed by social scientists. Emphasis is focused upon the development of skills in sampling schedules and questionnaires, scale construction, interviewing, participant observation, personal documents and data analysis.

33. Family Sociology 3 hours

An analysis of the family from an institutional and structural framework. Emphasis will be placed on a review of past and current research.

- 34. The Urban Community** **3 hours**
 A review of the processes underlying the development of rural, urban and suburban communities. Special emphasis is given to neighborhood structure and organization, housing and land use, human behavior, patterns of community growth, and community planning.
- 35. Sociology of Education (Ed. 35.)** **3 hours**
 A study of the school as a social system as well as a basic institution in society. Emphasis will be placed on the sociological dimension of learning through reviews of contemporary social science research.
- 36. Industrial Sociology** **3 hours**
 Relationships of modern industrial organizations to other institutions in society, political systems, social class systems, etc. Concerns within an industrial plant are formal and informal patterns of behavior and intergroup conflicts and adjustments.
- 37. Philosophy and Behavioral Science** **3 hours**
 Same as philosophy 35.
- 38. Elementary Statistics** **3 hours**
 An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis on the interpretation and use of statistical analysis in the social sciences.
Prerequisite: Sociology 8.
- 41. Social Stratification** **3 hours**
 An analysis of the nature, functioning, and maintenance of systems of social stratification. Special attention is given to the correlates and consequences of social class factors in American society.
- 42. Complex Organizational Theory** **3 hours**
 A review of the theories of large scale organizations with particular emphasis on the theories of bureaucracy and other sociological theories.
- 43. Introduction to Sociological Theory** **3 hours**
 A review of the variety of theories and the assumption behind them in the origin and development of sociological analysis during the past one hundred years. Special effort is made to develop research designs from the best theories of the past.
- 45. American Minorities** **3 hours**
 A survey of American racial and cultural minorities along with a review of the factors which determine the rate and manner of assimilation, cultural, pluralism, segregation and prejudice.
- 46. Criminology** **3 hours**
 Study of the factors that cause crime and criminal behavior, organization of criminal behavior, theories and practices of delinquent and criminal control and rehabilitation.
- 49. Sociological Research Design** **3 hours**
 A flexibly structured course to allow advanced students to pursue individual or group research under the supervision of a member of the department.
Prerequisites: Sociology 31 and 43.

50. Contemporary Social Thought**3 hours**

A flexibly structured course to allow advanced students to pursue the development of contemporary models of man and society under the supervision of a member of the department.

Prerequisites: Sociology 31 and 43.

51. Honors Seminar: Contemporary Social Issues**3 hours****55. Independent Study****3 hours**

A flexibly structured course to allow any student to pursue a specific topic or field experience under the supervision of a member of the department or a field representative.

Department of Theology

The meaningful communication of revealed truth constitutes the ultimate reason for the existence of a specifically Catholic College, and in this communication the Theology Department plays an indispensable role. The Department of Theology, therefore, proposes the following as its principal aims: 1. to so introduce the student to revealed truth that it is embraced not simply as a body of truth but as a personal summons; 2. to develop in the student an appreciation of the permanence and relevance of divine truth; 3. to acquaint the student with the various areas of theological thought in their present stage of development.

In view of the new awareness of the role of the layman, the Department offers a major in theology to the student who looks forward to a more active participation in the various forms of the apostolate, such as in particular the Confraternity of Christian Doctrine, or who desire to pursue graduate study in theology.

Departmental Requirements:

1. The Bible and the Documents of Vatican II are required as basic texts for all the theology courses.

2. Theology 19 and 20 are prerequisites for all courses in theology.

3. The requirement for a *major* in theology is 36 hours in theology so selected as to include Theology 31 and 32, and at least one course from each of the following areas: Dogmatic Theology, Theology of Community and Moral Theology. Requirements for a *minor* sequence in theology are any 18 hours in theology so selected as to include one course from the area of Biblical Theology, Dogmatic Theology, or the Theology of Community, and one course from the area of Moral Theology.

19. The Old Testament**3 hours**

A reading course in Old Testament literature.

20. The New Testament**3 hours**

A reading course in New Testament literature.

31. The Old Testament**3 hours**

God's initial entrance into history by word and event. This course studies representative books of the Old Testament against the background of contemporary civilization, considering God's providential preparation for the coming of the Word.

32. The New Testament**3 hours**

God's definite entrance into history in his Word. This course studies selected books of the New Testament, against the geographic, historical and literary backgrounds of contemporary civilizations, developing principal themes of divine revelation made known in Christ.

33. The Christian Layman 3 hours

After an historical study of the Christian life as lived by the layman, this course studies the theological foundations and concrete applications of the life of the layman in the areas of technology, marriage and politics.

34. The Sacramental Church 3 hours

The Church continuously makes present God's salvific word and work. This course studies the Church, the primordial sacrament, as the human prolongation of the redemptive activity of Christ.

41. God and Creation 3 hours

This course studies God's self-manifestation in the history of salvation, as contained in the Old and New Testament, and proclaimed in and through the living magisterium of the Church. Emphasis is given to current questions about God and God-world relationship.

44. Christian Morality 3 hours

Through class discussion this course acquaints the student with some of the contemporary moral problems of the day, and the principles underlying their solution.

45. Contemporary Questions in Dogma 3 hours

This course investigates, at a deeper level than is possible in a more general course, some of those questions that are of predominant interest in current theological discussion. (Same as Philo. 45)

48. Social Theology I 3 hours

This course aims to set forth the teaching of the Church in matters pertaining to political and sociological questions. It is problem oriented. The content of the social encyclicals, recent papal pronouncements, conciliar statements and current theological thought is emphasized and applied to current questions in the areas.

49. Social Theology II 3 hours

This course aims to set forth the teaching of the Church in matters pertaining to business and economics. It is problem orientated. The content of the social encyclicals and other recent papal documents and conciliar statements is emphasized and applied to current socio-economic questions. (Same as Economics 49)

THEOLOGY SEMINAR (for Majors only)

46. Theology Seminar 3 hours

This course will be taught by three members of the department. A particular question or theme in theology will be followed through and developed in the three periods of patristic, scholastic and contemporary theological thought.

55. Independent Study 1-3 hours

SAINT JOSEPH'S COLLEGE

**MASTER OF ARTS DEGREE
IN MUSIC**

Concentration: Church Music

RENSSELAER, INDIANA



HISTORICAL SKETCH

In 1960 Saint Joseph's College initiated its Summer Institute of Liturgical Music, which offered a comprehensive program leading to the Bachelor of Arts Degree or to a Certificate. In 1963 the Institute was extended to the full school year and two additional concentrations were added, Piano and Organ. A concentration in Theory and Composition was introduced in 1965. Music Education was added in 1967. In 1970 the designation of the Liturgical Music concentration was changed to Church Music in order to indicate that the training provided could well fit the needs of both Roman Catholic church musicians and those of other faiths.

A graduate program was initiated in 1966 in affiliation with DePaul University Graduate School: Music Division. On July 28, 1972, North Central Association of Colleges and Secondary Schools granted full accreditation to Saint Joseph's College independent graduate program, offering a Master of Arts Degree in Music with a concentration in Church Music and with a fourfold option of emphasis: Composition, Conducting, Organ, and Voice.

AIM

The aim of Saint Joseph's College graduate program in church music is to provide quality musical training on the graduate level to church musicians and teachers of church music in a worship-oriented context. Advanced musical theory and practice are integrated with academic liturgical investigation as well as practical experience.

ADMINISTRATION

The graduate program is under the general supervision of the Vice-President for Academic Affairs, who is directly responsible to the President of the College. Policies are determined by the Graduate Council, of which the Graduate Director is the chairman. The Graduate Council is made up of at least five members, including the Graduate Director and College Registrar, together with the other members proposed by the Vice-President for Academic Affairs and appointed by the President.

Details of the graduate program are administered by the departmental director. He presents recommendations from the faculty and/or students of his department. He also serves as adviser for the students or assigns this task to one or more of his fellow departmental instructors. Student requests for special consideration, for example for a departure from the listed requirements and regulations, are to be made to the Graduate Council through the student's adviser.



MASTER OF ARTS DEGREE IN MUSIC

Concentration: Church Music

Requirements for Admission to the Graduate Program

To be admitted as a candidate for the Master of Arts Degree in Music with a concentration in Church Music the student must meet the following requirements:

1. He must have a bachelor's degree from a recognized college or university.
2. He must have a cumulative index of 2.50 in his undergraduate work.
3. He must have fulfilled the music requirements of Saint Joseph's College undergraduate program in Church Music for his specific emphasis: Composition, Conducting, Organ, or Voice. (Additional requirement for students who choose the Composition emphasis: Orchestration) Deficiencies, if any, must be removed through credit or through proficiency examinations.
4. He must submit an application and official transcripts of all undergraduate and graduate work. These documents must be submitted at least four weeks before the opening date of the summer session.
5. He must pass entrance examinations in theory, piano, organ (performance and service playing), conducting, voice, and music history; also composition for those in Composition emphasis. Should he fail in any area, additional undergraduate work will be assigned and a subsequent examination required.

IN ORDER TO ENROLL FOR GRADUATE COURSES APPLICABLE TOWARD THE DEGREE THE STUDENT MUST HAVE REMOVED ALL BUT SIX CREDIT HOURS OF DEFICIENCY, EXCLUSIVE OF APPLIED MUSIC.

Requirements for Admission to Candidacy for the Degree

In order to be admitted to candidacy for the degree the student must fulfill the following requirements:

1. He must have removed all deficiencies.
2. He must have successfully passed at least six credit hours of graduate work with an index of 2.5 or better.
3. He must have received a recommendation from the graduate music faculty.

Requirements for Graduation

The requirements for graduation are as follows:

1. Admission to candidacy as described above;
2. The successful passing of thirty credit hours applicable toward the degree as indicated in one of the four emphases with a grade of C or above;
3. A cumulative index of 3.00 or above;
4. The fulfillment of residence and time requirements, as follows:
 - a. **Residence.** Normally all courses for the degree must be taken at Saint Joseph's College. With special permission of the Graduate Director a maximum of six credit hours of graduate work may be transferred from another institution provided the grade earned was B or above.
 - b. **Time.** All work applicable toward the degree must have been done within the span of seven years. Work beyond seven years before the proposed graduation must be validated by a special examination.
5. The successful passing of oral comprehensive examinations before a board of three graduate faculty members.

Independent Study

The graduate program provides the opportunity for a student to pursue special topics or projects apart from regularly scheduled courses. The student registers for such independent study at the beginning of the session.

GRADING SYSTEM AND QUALITY POINTS

- Graduate courses are graded as follows:
- A — excellent; above average..... 4 quality points
 - B — good; average 3 quality points
 - C — passing; below average but sufficient for earning credit... 2 quality points
 - F — failure 0 quality points
 - I — incomplete; work to be completed within five weeks after the close of the session or a grade of F to be given
 - W — withdrawal
 - Z — audit

CLASS WITHDRAWAL

A student who withdraws from a course before the final week of the summer session will receive a **W** in the course.

A student who withdraws later than one week before the end of the summer session will receive an **F** in the course.

NON-DEGREE-SEEKING STUDENTS

Specially qualified students who have a bachelor’s degree but do not fulfill all admission requirements may enroll for individual courses for which they are qualified with the approval of the departmental director.

PROGRAM OF STUDIES

THIRTY HOURS as follows . . .

- Required of **all students**:
- 511. Historical and Theological Perspectives of Christian Worship — 3 hours
 - 512. Liturgy Seminar (3 courses of 2 hours each) — 6 hours
 - 611. Sixteenth-century Counterpoint — 3 hours
 - 612. Historical Development of Musical Style — 3 hours
- Additional requirements for **ORGAN EMPHASIS**:
- One** of the following — —
 - 621. Gregorian Paleography and Chironomy — 2 hours
 - 622. Conducting and Score Reading: Renaissance and Baroque Church Music — 2 hours
 - 623. Conducting and Score Reading: Twentieth-century Church Music — 2 hours
 - 631. Organ Literature and Registration I (beginning to 1700) — 2 hours
 - 632. Organ Literature and Registration II (1700 to the present) — 2 hours
 - 633. Organ Structure and History — 1 hour
 - Organ — 4 hours
 - Voice — 2 hours
 - Graduate Recital (with research paper) — 2 hours

Additional requirements for **VOICE EMPHASIS**:

- 621. Gregorian Paleography and Chironomy — 2 hours
- One** of the following: 622, 623 (cf. above) — 2 hours
- 635. Sacred Vocal Literature — 2 hours
- Voice — 4 hours
- Graduate Recital (with research paper) — 2 hours
- Electives in Music — 3 hours

Additional requirements for **CONDUCTING EMPHASIS:**

- 621, 622, and 623 (cf. above) — 6 hours
- 634. Sacred Choral Music: History and Literature — 2 hours
- Voice — 2 hours
- Graduate Presentation (with research paper) — 2 hours
- Electives in Music — 3 hours

Additional requirements for **COMPOSITION EMPHASIS:**

- 613. Twentieth-century Techniques — 2 hours
- 623. Conducting and Score Reading: Twentieth-century Church Music — 2 hours
- 634. Sacred Choral Music: History and Literature — 2 hours
- Composition — 6 hours
- Graduate Presentation (with research paper) — 2 hours
- Elective in Music — 1 hour

COURSE OFFERINGS

GRADUATE COURSES IN MUSIC

Theory

- 611. Sixteenth-century Counterpoint — 3 hours
- 613. Twentieth-century Techniques — 2 hours
- 614. Composition — variable credit

Conducting

- 621. Gregorian Paleography and Chironomy — 2 hours
- 622. Conducting and Score Reading: Renaissance and Baroque Church Music — 2 hours
- 623. Conducting and Score Reading: Twentieth-century Church Music — 2 hours

History and Literature

- 612. Historical Development of Musical Style — 3 hours
- 631. Organ Literature and Registration I (from the beginning to 1700) — 2 hours
- 632. Organ Literature and Registration II (from 1700 to the present) — 2 hours
- 633. Organ Structure and History — 1 hour
- 634. Sacred Choral Music: History and Literature — 2 hours
- 635. Sacred Vocal Literature — 2 hours

Applied Music

- 641. Organ — variable credit
- 642. Voice — variable credit
- 643. Piano — variable credit

Graduate Recitals and Presentations

- 651. Graduate Organ Recital (with research paper) — 2 hours
- 652. Graduate Voice Recital (with research paper) — 2 hours
- 653. Graduate Presentation in Conducting (with research paper) — 2 hours
- 654. Graduate Presentation in Composition (with research paper) — 2 hours

Miscellaneous

- 655. Independent Study — 1-3 hours
- 660. Seminar (variable content, e.g., Hymnody, Applied Liturgics) — 1-3 hours

UNDERGRADUATE COURSES IN LITURGY, Applicable Toward the Graduate Degree

- 511. Historical and Theological Perspectives of Christian Worship — 3 hours
- 512. Liturgy Seminar (variable content; offered each summer immediately after the general session) — 2 hours
(Specimen content for Course 512: Spirituality of Liturgy; Theological Implications of the New Order of Mass; Historical Development of the Liturgy)

ADMINISTRATIVE OFFICERS

Charles H. Banet, M.A.L.S., Litt. D., President
Paul R. White, C.PP.S., M.A., Executive Vice-President
Robert J. Garrity, Ph.D., Vice-President for Academic Affairs
Paul E. Wellman, C.PP.S., M.B.A., Vice-President for Business Affairs
Charles J. Robbins, C.PP.S., M.A., Registrar
John P. Nichols, S.T.L., Ph.D., Graduate Director
Lawrence F. Heiman, C.PP.S., D.S.Mus., Departmental Director of Church Music Program

FACULTY

Resident Faculty

Anne-Marle Egan

M.A., Indiana University, 1957; Ph.D. (Cand.), *ibid.*

John B. Egan

Ph.D., Indiana University, 1962

Lawrence F. Helman, C.PP.S.

M.A., Catholic University of America, 1949; L.C.G., Pontifical Institute of Sacred Music (Rome); 1958; M.C.G., *ibid.*, 1959; D.S.Mus., *ibid.*, 1970.

William J. Kramer, C.PP.S.

L.Sc.N., University of Fribourg (Switzerland), 1951; Sc.D., *ibid.*, 1952.

Visiting Faculty

Gerard T. Broccolo

St. Mary of the Lake Seminary, Mundelein, IL, S.T.L., Pontifical Gregorian University (Rome), 1965; S.T.D., Pontifical Liturgical Institute of St. Anselm (Rome), 1970.

Phillp K. Gehrlng, A.A.G.O.

Valparaiso University, Valparaiso, IN, Mus.M., Syracuse University, 1955; Ph.D., *ibid.*, 1963.

James P. Hansen

Cantor, National Shrine, Washington. M.A., Northern Michigan University, 1968.

Sr. Theophane Hytrek, O.S.F., F.A.G.O.

Alverno College, Milwaukee, Mus.M., Organ Major, Wisconsin Conservatory, 1941; Mus.M., Composition Major, DePaul University, 1948; Ph.D., Eastman School of Music, University of Rochester, 1956.

Sr. Raban Wathen, O.S.F.

Briar Cliff College, Sioux City, IA, Mus.M., Indiana University, 1962.

FEES

Entrance examination fee	\$ 10.00
Tuition per credit hour (courses numbered over 500)	48.00
Board for summer session (five weeks)	120.00
Board for post-session (ten days)	40.00
Room for summer session:	
single occupancy	60.00
double occupancy	40.00
Room for post-session.....	15.00
Private instruction in instrument, voice, or composition (two half-hour or one 60-minute lesson per week for five weeks).....	30.00 (plus tuition)
General fees for summer session	6.00
Graduation fee.....	25.00

For applications and additional information please write to:
Rev. Lawrence F. Heiman, C.PP.S.
Director, Graduate Church Music Program
Saint Joseph's College
Rensselaer, Indiana 47978



ADMINISTRATION AND FACULTY

SAINT JOSEPH'S COLLEGE CORPORATION 1973-74

Officers

Charles T. Bricher, C.PP.S.,* *Chairman*, Cincinnati, Ohio.
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 John M. Lefko, C.PP.S., *Secretary*, East Chicago, Indiana.
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 James J. Carmody, LaGrange Park, Illinois.
 Vic Cassano, Kettering, Ohio.
 William B. Currie, D.D.S., Indianapolis, Indiana.

*C.PP.S. These letters are the abbreviations of Congregatio Pretiosissimi Sanguinis, the official name of the Society of the Precious Blood. All the priests and brothers at Saint Joseph's are members of this religious community.

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Michael E. Davis, Rensselaer, Indiana.
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Richard Dooley, Chicago, Illinois.
Thomas B. Dumas, Rensselaer, Indiana.
Albert C. Fellingner, Glencoe, Illinois.
Frank L. Gallucci, Fort Wayne, Indiana.
George S. Halas, Chicago, Illinois.
Charles A. Halleck, Rensselaer, Indiana.
Arthur L. Hellyer, Chicago, Illinois.
Matthew J. Hickey, III, Chicago, Illinois.
W. August Hillenbrand, Batesville, Indiana.
Thomas Juettner, Palatine, Illinois.
James B. McCahey, Chicago, Illinois.
John P. Mascotte, Fort Wayne, Indiana.
William S. Miller, Chicago, Illinois.
Michael P. Murphy, Chicago, Illinois.
Dalton A. O'Connor, Fort Wayne, Indiana.
Benedict Sponseller, Rensselaer, Indiana.
John W. Sweeterman, Dayton, Ohio.
Watson Walker, M.D., Columbus, Ohio.
Mrs. George K. Ward, Bay City, Michigan.
Philip Wilhelm, Indianapolis, Indiana.
James S. Zid, Cleveland, Ohio.
Ray Ziegman, Orrville, Ohio.

Emeriti

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Robert A. Gallagher, Palos Park, Illinois.
William J. Halligan, Miami Beach, Florida.
Morris E. Jacobs, Scottsdale, Arizona.
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Morgan Murphy, Chicago, Illinois.
Richard A. O'Connor, Palm Beach, Florida.
John Schmidt, Chicago, Illinois.

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Charles J. Robbins, C.PP.S., M.A., *Religious Superior*.
Paul R. White, C.PP.S., M.A., *Executive Vice-President*.
Robert J. Garrity, Ph.D., *Vice-President for Academic Affairs*.
Alvin W. Druhman, C.PP.S., M.A., Ph.D., *Secretary of the College*.
Paul E. Wellman, C.PP.S., M.B.A., *Vice-President for Business Affairs*.
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Gerald F. Walker '59 (1975) *Vice President for Academics and Recruiting*, Evergreen Park, Illinois.
James C. Hattemer '65 (1975) *Vice President for Campus Relations*, Cincinnati, Ohio.

Members

Louis A. Abbott, D.D.S., '50 (1976) Monticello, Indiana.
B. Todd Adams '54 (1974) Deerfield, Illinois.
Anthony F. Baldin '58 (1975) Schererville, Indiana.
David S. Boyer '64 (1976) Birmingham, Michigan.
James J. Buckley '48 (1976) Whiting, Indiana.
Charles A. Clemens '64 (1975) Shaker Heights, Ohio.
Paul J. Corsaro '65 (1976) Greenwood, Indiana.
Albert H. Croci '61 (1975) Toledo, Ohio
Jerome S. Hoess '60 (1974) Munster, Indiana.
Michael S. Kanne '62 (1975) Rensselaer, Indiana.
Donna B. Knochel '65 (1974) Remington, Indiana.
Robert J. Lippie '60 (1975) Highland, Indiana.
Robert P. Ramesh '61 (1975) South Bend, Indiana.
Richard W. Renspie '63 (1975) Lombard, Illinois.
James O. Saul '67 (1976) Ft. Wayne, Indiana.
John G. Spindler, Jr., '65 (1975) Jasper, Indiana.
Thomas B. Walsh '65 (1976) Oak Lawn, Illinois.
Benedict Sponseller '74 (1974) Student Association President, Lakewood, Ohio.
Matthew L. McGee, Jr., '74 (1974) Senior Class President, Benton Harbor, Michigan.

ADMINISTRATIVE STAFF 1973 - 74

James E. Buck Head Librarian
Dixie Green, R.N..... Assistant Director of Health Service
Raphael H. Gross, C.PP.S.....Director of the Fellows Program
Doyne M. Hahn Assistant Librarian
Jerome Hughes Personnel Dean
James A. Kenny, Ph.D. Director of Guidance and Clinical Psychology
Leonard J. Kostka, C.PP.S.....Chaplain of the College
John Kenney Athletic Trainer
Dennis G. Lavery.....Special Assistant to the Office of Development
Michael GianoliSuperintendent of Buildings and Grounds
Thomas Moore Plant Engineer
Rita H. Murphy, R.N. Director of Health Service
Sante J. Reale, C.PP.S..... Director of the Alumni Association
Charles J. Robbins, C.PP.S.....Registrar, Director of Financial Aids
Richard F. Scharf Director of Placement, Director of Athletics
Marie Schultz Assistant Director of Health Service
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William J. Stafford..... Director of Admissions
William Staudt, C.PP.S..... Director of Halleck Center
William G. Verbrugge.....Assistant Director of Computer Center
Paul A. Williams, M.D. College Physician
Kenneth J. Zawodny Director of Computer Center

FACULTY 1973 - 74

Charles H. Banet, C.PP.S. (1949)

President and Associate Professor of Classical Studies

M.A.L.S., University of Michigan, 1951; *ibid.*, 1952-52; Appointed President, 1965; American Council on Education Presidents' Institute, University of Wisconsin, Summer, 1967; Litt.D., Saint Joseph's College.

Vincent J. Ballce, C.PP.S. (1965)

Assistant Professor of English

M.A., University of Detroit, 1965; Ph.D., Purdue University, 1971.

Rudolph P. Blerberg, C.PP.S. (1958)

Professor of Theology

S.T.L., Catholic University of America, 1941; S.T.D., *ibid.*, 1943.

Donald E. Brinley (1955)

Associate Professor of Philosophy

A.M., Catholic University of America, 1951; Ph.D. (Cand.), Indiana University.

Allen J. Broussard (1964)

Chairman, Department of Accounting-Finance and Associate Professor of Accounting

M.B.A., University of Arkansas, 1960; C.P.A., State of Indiana, 1968.

John J. Bucholtz (1962)

Chairman, Department of Political Science and Associate Professor of Political Science

M.A., Princeton University, 1959; Ph.D., *ibid.*, 1967.

James E. Buck (1971)

Head Librarian with the rank of Assistant Professor

M.L.S., University of Pittsburgh, 1967.

Roy E. Burkey (1965)

Associate Professor of Business Administration

M.B.A., Ohio State University, 1962; Ph.D., *ibid.*, 1971.

Ralph M. Cappuccilli (1948)

Chairman, Department of Communications and Theatre Arts and Associate Professor of Communications and Theatre Arts.

A.M., University of Michigan, 1951; Ph.D., Purdue University, 1967.

Raymond M. Cera, C.PP.S. (1948)

Associate Professor of Romance Languages

M.A., Saint John's University (Brooklyn), 1951.

David D. Chesak (1970)

Pre-Engineering Advisor, Assistant Professor of Mathematics and Physics, and Chairman, Department of Mathematics—Physics

M.E.E., University of Louisville, 1963; P.E., 1963; Ph.D., Ohio University, 1971.

Thomas F. Crowley (1968)

Assistant Professor of Accounting.

M.A.S., University of Illinois, 1968; C.P.A., State of Illinois, 1968.

Michael E. Davls (1952)

Chairman, Department of Geology and Associate Professor of Geology

M.S., Kansas State University, 1951; N.S.F., Summer Institute, Millsaps College, 1968; Summer Institute, Wayne State University, 1969.

William L. Downard (1969)*Associate Professor of History*

M.A., Cincinnati University, 1965; Ph.D., Miami University (Ohio), 1969.

Boniface R. Drelling, C.PP.S., (1940)*Associate Professor of Physics*

M.S., Catholic University of America, 1940; University of Chicago, 1943-46

Alvin W. Druhman, C.PP.S., (1948)*Secretary of the College and Professor of English*M.A., Saint Joseph's University (Brooklyn), 1950; Ph.D., *ibid*, 1952.**John B. Egan (1962)***Chairman, Department of Music and Associate Professor of Music.*

Ph.D., Indiana University, 1962.

Anne-Marle Egan (1962)*Assistant Professor of Music*M.A., Indiana University, 1957; Ph.D. (Cand.), *ibid*.**Rufus H. Esser, C.PP.S. (1925)***President 1937-38 and Professor of English*

M.A., Catholic University of America, 1927; Indiana University, Summers, 1930, 1931.

Lyle E. Fogel, Jr., (1973)*Assistant Professor of Economics*M.A., University of Iowa, 1973; Ph.D., *ibid*, 1973.**Rodney J. Gaard (1969)***Chairman, Department of Economics and Assistant Professor of Economics*

M.A., University of Iowa, 1969.

Lawrence F. Garreffa (1970)*Assistant Professor of Psychology*Public Health Fellow, Wayne State University, 1966-70; M.A., *ibid*., 1969; Ph.D., *ibid*, 1971.**Robert J. Garrity (1972)***Vice-President for Academic Affairs and Professor of Philosophy.*M.A., LaSalle College, 1954; M.A., Duquesne University, 1962; Ph.D., *ibid*., 1964, Institute for Academic Deans, 1972.**Dominic B. Gerlach, C.PP.S., (1952)***Associate Professor of History and German*

M.A., Saint Louis University, 1952; University of Michigan, Summer, 1956; Goethe Institute, Munich, Summer, 1962; Catholic University of America, Summer, 1965.

Phillip F. Gilbert, C.PP.S. (1961)*Associate Professor of Mathematics*

University of Detroit, 1960-61; M.S., University of Illinois, 1964.

John D. Groppe (1962)*Associate Professor of English*

M.A., Columbia University, 1957; University of Notre Dame, 1957-1962; Institute for Ecumenical Research, Saint John College, Collegeville, Minn., 1969.

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Raphael H. Gross, C.PP.S., (1941)

President 1951-65; Director of Fellows Program, and Professor of English
A.M., University of Michigan, 1941; Ph.D., University of Montreal, 1952; LL.D., Saint Joseph's College, 1967.

Doyne M. Hahn (1971)

Assistant Librarian with rank of Assistant Professor
M.A., University of Arizona, 1966; M.S.L.S., University of Wisconsin, 1968.

Norman L. Heckman, C.PP.S. (1940)

Associate Professor of Chemistry
University of Wisconsin, 1943-44; A.M., Indiana University, 1947.

Ambrose J. Helman, C.PP.S. (1969)

Professor of Philosophy
M.A., University of Toronto, 1942; L.M.S., Pontifical Institute of Medieval Studies, Toronto, 1947; Ph.D., University of Toronto, 1949; S.T.L., The Catholic University of America, 1953.

Lawrence F. Helman, C.PP.S., (1943)

Professor of Music and Director, Graduate Program in Church Music
M.A., Catholic University of America, 1949; Marquette University, Summer, 1950; L.C.G., Pontifical Institute of Sacred Music (Rome), 1958; M.C.G., *ibid.*, 1959; C.Mus.D., *ibid.*, 1970.

David H. Hoover (1966)

Assistant Professor of History
M.A., University of Cincinnati, 1965.

William G. Jennings (1965)

Assistant Professor of Physical Education
M.Ed., Loyola University (Chicago), 1963.

Duvall A. Jones (1973)

Assistant Professor of Biology
M.S., University of Maryland, 1961; West Virginia University, 1962; Ph.D., University of Florida, 1967.

Edward J. Joyce, C.PP.S., (1964)

Chairman, Department of Theology and Associate Professor of Theology
S.S.L., The Biblicum (Rome), 1959; S.T.L., The Angelicum (Rome), 1957; S.T.D., *ibid.*, 1960.

G. Robert Kasky (1966)

Assistant Professor in Accounting
M.B.A., Indiana University, 1963; C.P.A., State of Illinois, 1964.

Paul E. Kelly (1950)

Chairman, Department of Business Administration and Professor of Marketing
A.M., Colorado State College, 1941; Ford Foundation Fellowship, Indiana University, Summer 1959.

James A. Kenny (1964)

Chairman, Department of Psychology, Director of Guidance and Clinical Psychology and Professor of Psychology
M.S.W., Loyola University (Chicago), 1957; Ph.D., University of Mainz, (Germany), 1962; M.A. (Anthropology), Indiana University, 1971; Ph.D. (Cand.), *ibid.*, 1972.

Charles M. Kerlin (1968)

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Leonard J. Kostka, C.PP.S. (1948)

Chaplain and Associate Professor of Theology
J.C.L., Catholic University of America, 1942; Seton Hall University, Summer, 1948;
Saint Louis University, Summer, 1954.

William J. Kramer, C.PP.S. (1953)

Chairman, Department of Chemistry and Professor of Chemistry
L.Sc.N., University of Fribourg (Switzerland), 1951; Sc.D., *ibid.*, 1952.

Hermes D. Kreilkamp, (1967)

Associate Professor of History and Philosophy
S.E.O.L., Pontifical Oriental Institute (Rome), 1951; M.A., Catholic University of America, 1966; Ph.D., *ibid.*, 1964.

Frederick R. Lang, C.PP.S., (1960)

Chairman, Department of Foreign Languages and Associate Professor of Classical Languages
M.A., University of Michigan, 1962; Ph.D., Pontifical Institute of Higher Latinity, Rome, 1969.

Michael J. Ledvina (1971)

Assistant Professor of Sociology
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Charles A. Lee (1972)

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M.M. (Cand.), Morehead State University

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Assistant Professor of Psychology
M.S., DePaul University, 1970; Ph.D. (Cand.), Miami University (Ohio), 1973.

Jose Luzay (1969)

Associate Professor of French
M.A. (Classical Languages), Jesuit College (Albania), 1930; M.A. (Literature), Sorbonne, 1935; M.S. (Philosophy), *ibid.*, LL.D., Albania Law College, 1935; Ph.D., Sorbonne, 1937; Litt.D., *ibid.*, 1938.

Edward P. McCarthy, C.PP.S., (1958)

Associate Professor of Philosophy
M.A., Catholic University of America, 1945.

Ralph A. Marini, (1960)

Associate Professor of Finance
M.B.A., Marquette University, 1960; Ford Foundation Faculty Fellowship, Indiana University, Summer, 1963.

John A. Marling, C.PP.S., (1938)

Associate Professor of Mathematics
B.S., Saint Joseph's College, 1938; Catholic University of America, Summer, 1938; John Carroll University, Summer, 1951.

Andrew G. Mehall, (1961)

Chairman, Department of Biology; Pre-medical Advisor; and Associate Professor of Biology.

M.S., Syracuse University, 1961; N.S.F. Summer Institute, University of Washington, 1965; Ph.D., University of Illinois, 1970.

Bernard J. Meiring, C.PP.S., (1957)

Professor of Education

M.A., University of Detroit, 1957; Ph.D., University of California, 1963; Tri-University Project in Elementary Education, New York University, 1968-69.

John P. Nichols, (1968)

Core Coordinator, Associate Professor of Philosophy and Director of Spring and Summer Sessions

S.T.L., Catholic University of Fribourg, 1963; Ph.L., Catholic University of Louvain, 1965; Ph.D., *ibid.*, 1967.

John P. Posey, (1969)

Associate Professor of History

M.A., University of Georgia, 1959; Ph.D., *ibid.*, 1962; Ford Foundation Fellowship, Institute of Far Eastern History and Civilization, Florida State University, Summer, 1965.

Donald H. Reichert, (1966)

Associate Professor of Education and Psychology

M.A., Ohio State University, 1956; Ph.D., *ibid.*, 1966.

Charles J. Robbins, C.PP.S. (1940)

Registrar; Director of Financial Aids; and Associate Professor of Classical Languages

M.A., Catholic University of America, 1945.

Jacob S. Rodia, (1963)

Professor of Chemistry

M.S., University of Illinois, 1948; Ph.D., *ibid.*, 1952; N.S.F., Summer Institute, University of Akron, 1968; N.S.F., Summer Institute, Duke University, 1969.

Edward M. Roof, C.PP.S., (1929)

Professor of Latin

M.A., Catholic University of America, 1931.

Charles R. Rueve, C.PP.S., (1946)

Professor of Mathematics

M.S., University of Notre Dame, 1949; Ph.D., *ibid.*, 1963.

Ambrose A. Ruschau, C.PP.S., (1955)

Associate Professor of Physics

M.S., Saint Louis University, 1956; N.S.F. Summer Institute in Radioisotope Technology, University of Michigan, 1964.

Martin D. Ryan, (1959)

Chairman, Department of Sociology and Associate Professor of Sociology

M.A., Purdue University, 1961; Ph.D., *ibid.*, 1967.

Florence Sawicki, (1972)

Chairperson, Department of Education and Assistant Professor of Education

M.A., Jersey City State College, 1967; Ph.D., Arizona State University, 1972.

Richard F. Scharf, (1940)

Chairman, Department of Physical Education; Director of Athletics; Director of Placement; and Associate Professor of Physical Education
M.E., in P.Ed., Indiana University, 1949; H.S.D. (Cand.), *ibid.*

Walter A. Scherb, (1969)

Assistant Professor of Business Administration
M.S., Northern Illinois University, 1967

Donald F. Shea, C.PP.S., (1947)

Chairman, Department of History and Professor of History
A.M., University of Michigan, 1947; Ph.D., Loyola University (Chicago), 1956; Harvard University, Summer, 1958; Visiting Scholar in History, Columbia University, Summer, 1964.

Thomas Sherlock, C.PP.S.,* (1969)

Instructor in Theology
M.A., University of Dayton, 1968.

Urban J. Slegrist, C.PP.S., (1936)

Director of the Institutum Divi Thomae Research Station and Professor of Biology
M.S., Catholic University of America, 1936; Ph.D., Institutum Divi Thomae, 1958.

Lyle H. Sleeman (1963)

Associate Professor of Geology
M.S., Kansas State University, 1959; Ph.D., University of Missouri, 1964; N.S.F., Summer Institute, Indiana University, 1964; N.S.F., Summer Institute, Pennsylvania State University, 1965; N.S.F., Research Participant, University of Wyoming, Summer, 1966, 1967; N.S.F., Summer Institute, Southwest Center of Advanced Studies, 1968; N.S.F., Summer Institute, Virginia Polytechnic Institute, 1969.

William G. Verbrugge (1967)

Assistant Professor of Mathematics and Computer Science; Chairman, Department of Computer Science
M.S., Illinois Institute of Technology, 1965; M.S., Purdue University, 1972.

Willard G. Walsh (1954)

Associate Professor of Communications and Theatre Arts
M.F.A., Fordham University, 1949; Certificate, American Academy of Dramatic Arts, 1953.

Paul E. Wellman, C.PP.S., (1957)

Vice-President for Business Affairs and Assistant Professor of Business Administration
M.B.A., Marquette University, 1962.

Paul R. White, C.PP.S., (1953)

Executive Vice-President; Associate Professor of Economics
University of Michigan, Summer, 1955; M.A., Catholic University of America, 1956; Cornell University, 1960.

Clayton A. Womelsdorff II, (1966)

Assistant Professor of Political Science
M.A., (Political Science), Baylor University, 1956; M.A., (Economics), Hardin-Simmons University, 1961.

Robert E. Wood, (1961)

Chairman, Department of Philosophy and Associate Professor of Philosophy
M.A., Marquette University, 1961; Ph.D., *ibid.*, 1967.

Lawrence J. Wyen, C.PP.S., ** (1970)

Instructor in English
University of Detroit, M.A., 1970.

Kenneth J. Zawodny, (1966)

Director of Computer Center with rank of Assistant Professor
B.S., Saint Joseph's College, 1969.

Emeriti

Edwin Kalser, C.PP.S., (1944-66)

Professor Emeritus of Theology
S.T.D., Saint John Lateran, 1923; Gregorianum University, 1923-24; Saint Louis University, Summer, 1947; Litt.D., Saint Joseph's College, 1967.

Joseph B. Kenkel, C.PP.S., (1922-66)

President, 1927-37 and Professor Emeritus of Economics
Ph.D., Catholic University of America, 1922; LL.D., Saint Joseph's College, 1970.

Clarence J. Kroeckel, C.PP.S., (1933-67)

Professor Emeritus of Biology
M.S., Catholic University of America, 1933; University of Chicago, 1944; University of Notre Dame, 1945-48; The Marine Biological Laboratory, Woods Hole, Massachusetts, Summer, 1958.

Adam P. Leslinsky, (1958-66)

Professor Emeritus of Music
M.M., American Conservatory of Music, 1944; D.M., Saint Joseph's College, 1972.

Thomas M. Ryan (1963-73)

Professor Emeritus of Education
M.A., University of Dayton, 1941; University of Cincinnati, 1947-48; Summer 1948.

Paul C. Tonner, (1918-63)

Professor Emeritus of Music
B.Mus., University Extension Conservatory, Chicago, 1931; Van Der Cook Conservatory of Music, Summer, 1949; Litt.D., Saint Joseph's College, 1958.

Associate Faculty

John R. Baumann, (1963)

Lecturer in Education
M.A.T., Indiana University, 1965.

in math,

James Froelich, C.PP.S., (1972)

Lecturer in Theology
M.A., Xavier University, 1962.

Charles A. Halleck, (1969)

Distinguished Lecturer in History
LL.B., Indiana University, 1924; LL.D., Saint Joseph's College, 1954.

John Kenney, (1968)

Lecturer in Physical Education

M.S., Indiana State University, 1966.

Dennis G. Lavery, (1969)

Special Assistant to the Office of Development and Lecturer in English and Education

M.A., Valparaiso University, 1968.

Sr. Donna Liette, C.PP.S., (1969)

Lecturer in Education

M.A., New York University, 1968.

Virginia Moinar, (1971)

Lecturer in Art

M.F.A., Pratt Institute, 1970.

John Nesbitt, (1961)

Lecturer in Business Law

J.D., Indiana University, 1958; Member of the Indiana Bar Association and American Bar Association.

George L. Post, (1969)

Lecturer in Physical Education

M.S., Purdue University, 1969.

Charles J. Schuttrow, (1965)

Director of Public Information and Lecturer in Journalism.

B.A., Saint Joseph's College, 1963.

John Welnert, (1972)

Lecturer in Physical Education

M.S., University of Northern Michigan, 1968.

*On leave for graduate study, Catholic University of America.

**On leave for graduate study, Case Western Reserve University.

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GIFTS AND BEQUESTS

Gifts and bequests of money, securities or real estate are gratefully received by Saint Joseph's College. Many additions have thus been made to the resources of the institution.

To serve the College in this way it is not necessary to make a large bequest. There are doubtless many who without injury to family or other interests could bequeath \$500, \$1,000, or \$5,000; and some who might bequeath a much larger sum.

Unless other use is specified, it is the general policy of the institution to designate funds so given as a part of the permanent endowment of the institution.

In order to be valid in most states, a will must be signed by the testator in the presence of at least two disinterested witnesses who should attest the instrument as such witnesses.

FORM OF GENERAL BEQUEST

I hereby give and bequeath to Saint Joseph's College, situated at Rensselaer, Indiana, forever, for the use of said institution in fulfillment of its general corporate purposes. (State here the sum of money which you desire to give, or describe the property or securities constituting the bequest.)

ANNUITIES

Anyone desiring to further the education of Catholic youth and the progress of training under Catholic auspices through the annuity plan may secure detailed information concerning the plan sponsored by Saint Joseph's College by writing to the Director of Development for Estates and Wills, Saint Joseph's College, Rensselaer, Indiana 47978.

RENSSELAER, INDIANA

A city of 5,000, Rensselaer is 73 miles southeast of Chicago, 50 miles southeast of Hammond and 100 miles west of Fort Wayne. Approached from the south, it is 110 miles northwest of Indianapolis and 49 miles northwest of Lafayette.

COLLEGEVILLE, INDIANA

Saint Joseph's College lies just outside Rensselaer's southern city limits. Indiana State Highway 53 (U.S. 231), one of the main routes connecting Chicago and Indianapolis, passes through the College grounds. Interstate 65 also provides fast transportation coming south from Chicago and north from Indianapolis. Visitors using I-65 should exit at the Route 114 ramp coming from the north and at the Routes 53-231 exit coming from the south. The Indiana Motor Bus Company, operating between Cincinnati and Chicago, uses Route 53 and will take on and let off passengers at the campus.

CAMPUS VISITS

Parents and relatives of prospective or resident students are welcome at the College at any time of the year. The College Courier Club offers guided tours of the campus, conducted by students at Saint Joseph's. Visitors are asked to notify the Admissions Office when arriving on campus to arrange for a tour guide. Interviews with the Admissions Office can be made by appointment.

SAINT JOSEPH'S COLLEGE
Rensselaer, Indiana 47978

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